

<110> INCYTE CORPORATION; Jiang, Xin;  
 Becha, Shanya D.; BULLOCH, Sean A.;  
 CHANG, Hsin-Ru; CHAWLA, Narinder K.;  
 ELLIOTT, Vicki S.; EMERLING, Brooke M.;  
 GIETZEN, Kimberly J.; HAFALIA, April J.A.;  
 JACKSON, Alan A.; KABLE, Amy E.;  
 KHARE, Reena; LEE, Soo Yeun;  
 MARQUIS, Joseph P.; MURAGE, Jaji;  
 SWARNAKAR, Anita; YANG, Yonghong G.

<120> LIPID-ASSOCIATED MOLECULES

<130> PF-1618 PCT

<140> To Be Assigned  
 <141> Herewith

<150> US 60/426,105  
 <151> 2002-11-13

<150> US 60/433,215  
 <151> 2002-12-12

<150> US 60/453,127  
 <151> 2003-03-07

<150> US 60/454,801  
 <151> 2003-03-13

<150> US 60/465,619  
 <151> 2003-04-24

<150> US 60/465,495  
 <151> 2003-04-24

<150> US 60/491,800  
 <151> 2003-08-01

<160> 42  
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 Gly Thr Ala Trp Ala Arg Arg Ser Gln Asp Leu His Cys Gly Ala  
 20 25 30  
 Cys Arg Ala Leu Val Asp Glu Leu Glu Trp Glu Ile Ala Gln Val  
 35 40 45  
 Asp Pro Lys Lys Thr Ile Gln Met Gly Ser Phe Arg Ile Asn Pro  
 50 55 60  
 Asp Gly Ser Gln Ser Val Val Glu Cys Glu Ser Ile Val Glu Glu  
 65 70 75  
 Tyr Glu Asp Glu Leu Ile Glu Phe Phe Ser Arg Glu Ala Asp Asn  
 80 85 90

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Lys | Asp | Lys | Leu | Cys | Ser | Lys | Arg | Thr | Asp | Leu | Cys | Asp | His |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Ala | Leu | His | Ile | Ser | His | Asp | Glu | Leu |     |     |     |     |     |     |
|     |     |     |     | 110 |     |     |     |     |     |     |     |     |     |     |

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<220>  
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| <400> 2 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Met     | Gly | Thr | Arg | Leu | Leu | Pro | Ala | Leu | Phe | Leu | Val | Leu | Leu | Val |
| 1       |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Leu     | Gly | Phe | Glu | Val | Gln | Gly | Thr | Gln | Gln | Pro | Gln | Gln | Asp | Glu |
|         |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Met     | Pro | Ser | Pro | Thr | Phe | Leu | Thr | Gln | Val | Lys | Glu | Ser | Leu | Ser |
|         |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Ser     | Tyr | Trp | Glu | Ser | Ala | Lys | Thr | Ala | Ala | Gln | Asn | Leu | Asp | Leu |
|         |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Tyr     | Ser | Lys | Ser | Thr | Ala | Ala | Met | Ser | Thr | Tyr | Thr | Gly | Ile | Phe |
|         |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Thr     | Asp | Gln | Val | Leu | Ser | Val | Leu | Lys | Gly | Glu | Glu |     |     |     |
|         |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     |     |

<210> 3  
 <211> 248  
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 <213> Homo sapiens

<220>  
 <221> misc\_feature  
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|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <400> 3 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Met     | Ala | Glu | Ser | His | Leu | Leu | Gln | Trp | Leu | Leu | Leu | Leu | Leu | Pro |
| 1       |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Thr     | Leu | Cys | Gly | Pro | Gly | Thr | Ala | Ala | Trp | Thr | Thr | Ser | Ser | Leu |
|         |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Ala     | Cys | Ala | Gln | Gly | Pro | Glu | Phe | Trp | Cys | Gln | Ser | Leu | Glu | Gln |
|         |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Ala     | Leu | Gln | Cys | Arg | Ala | Leu | Gly | His | Cys | Leu | Gln | Glu | Val | Trp |
|         |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Gly     | His | Val | Gly | Ala | Asp | Leu | Ser | Glu | Gln | Gln | Phe | Pro | Ile | Pro |
|         |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Leu     | Pro | Tyr | Cys | Trp | Leu | Cys | Arg | Ala | Leu | Ile | Lys | Arg | Ile | Gln |
|         |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Ala     | Met | Ile | Pro | Lys | Gly | Ala | Leu | Ala | Val | Ala | Val | Ala | Gln | Val |
|         |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Cys     | Arg | Val | Val | Pro | Leu | Val | Ala | Gly | Gly | Ile | Cys | Gln | Cys | Leu |
|         |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Ala     | Glu | Arg | Tyr | Ser | Val | Ile | Leu | Leu | Asp | Thr | Leu | Leu | Gly | Arg |
|         |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Met     | Leu | Pro | Gln | Leu | Val | Cys | Arg | Leu | Val | Leu | Arg | Cys | Ser | Met |
|         |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Asp     | Asp | Ser | Ala | Gly | Pro | Arg | Glu | Trp | Leu | Pro | Arg | Asp | Ser | Glu |
|         |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Cys     | His | Leu | Cys | Met | Ser | Val | Thr | Thr | Gln | Ala | Gly | Asn | Ser | Ser |
|         |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Glu     | Gln | Ala | Ile | Pro | Gln | Ala | Met | Leu | Gln | Ala | Cys | Val | Gly | Ser |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Leu | Asp | Arg | 185 | Glu | Lys | Cys | Lys | Gln | 190 | Phe | Val | Glu | Gln | His | 195 | Thr |
|     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |     |     |     | 210 |
| Pro | Gln | Leu | Leu | 215 | Thr | Leu | Val | Pro | Arg | 220 | Gly | Trp | Asp | Ala | His |     | Thr |
| Thr | Cys | Gln | Ala | 230 | Leu | Gly | Val | Cys | Gly | 235 | Thr | Met | Ser | Ser | Pro |     | Leu |
| Gln | Cys | Ile | His | 245 | Ser | Pro | Asp | Leu |     |     |     |     |     |     |     |     |     |

&lt;210&gt; 4

&lt;211&gt; 906

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7513132CD1

&lt;400&gt; 4

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
| Met | Ala | Gly | Ala | Ala | Ser | Pro | Cys | Ala | Asn | Gly | Cys | Gly | Pro | Gly |  |  |  |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |  |  |  |
| Ala | Pro | Ser | Asp | Ala | Glu | Val | Leu | His | Leu | Cys | Arg | Ser | Leu | Glu |  |  |  |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |  |  |  |
| Val | Gly | Thr | Val | Met | Thr | Leu | Phe | Tyr | Ser | Lys | Lys | Ser | Gln | Arg |  |  |  |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |  |  |  |
| Pro | Glu | Arg | Lys | Thr | Phe | Gln | Val | Lys | Leu | Glu | Thr | Arg | Gln | Ile |  |  |  |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |  |  |  |
| Thr | Trp | Ser | Arg | Gly | Ala | Asp | Lys | Ile | Glu | Gly | Ala | Ile | Asp | Ile |  |  |  |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |  |  |  |
| Arg | Glu | Ile | Lys | Glu | Ile | Arg | Pro | Gly | Lys | Thr | Ser | Arg | Asp | Phe |  |  |  |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |  |  |  |
| Asp | Arg | Tyr | Gln | Glu | Asp | Pro | Ala | Phe | Arg | Pro | Asp | Gln | Ser | His |  |  |  |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |  |  |  |
| Cys | Phe | Val | Ile | Leu | Tyr | Gly | Met | Glu | Phe | Arg | Leu | Lys | Thr | Leu |  |  |  |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |  |  |  |
| Ser | Leu | Gln | Ala | Thr | Ser | Glu | Asp | Glu | Val | Asn | Met | Trp | Ile | Lys |  |  |  |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |  |  |  |
| Gly | Leu | Thr | Trp | Leu | Met | Glu | Asp | Thr | Leu | Gln | Ala | Pro | Thr | Pro |  |  |  |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |  |  |  |
| Leu | Gln | Ile | Glu | Arg | Trp | Leu | Arg | Lys | Gln | Phe | Tyr | Ser | Val | Asp |  |  |  |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |  |  |  |
| Arg | Asn | Arg | Glu | Asp | Arg | Ile | Ser | Ala | Lys | Asp | Leu | Lys | Asn | Met |  |  |  |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |  |  |  |
| Leu | Ser | Gln | Val | Asn | Tyr | Arg | Val | Pro | Asn | Met | Arg | Phe | Leu | Arg |  |  |  |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |  |  |  |
| Glu | Arg | Leu | Thr | Asp | Leu | Glu | Gln | Arg | Ser | Gly | Asp | Ile | Thr | Tyr |  |  |  |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |  |  |  |
| Gly | Gln | Phe | Ala | Gln | Leu | Tyr | Arg | Ser | Leu | Met | Tyr | Ser | Ala | Gln |  |  |  |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |  |  |  |
| Lys | Thr | Met | Asp | Leu | Pro | Phe | Leu | Glu | Ala | Ser | Thr | Leu | Arg | Ala |  |  |  |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |  |  |
| Gly | Glu | Arg | Pro | Glu | Leu | Cys | Arg | Val | Ser | Leu | Pro | Glu | Phe | Gln |  |  |  |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |  |  |  |
| Gln | Phe | Leu | Leu | Asp | Tyr | Gln | Gly | Glu | Leu | Trp | Ala | Val | Asp | Arg |  |  |  |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |  |  |  |
| Leu | Gln | Val | Gln | Glu | Phe | Met | Leu | Ser | Phe | Leu | Arg | Asp | Pro | Leu |  |  |  |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |  |  |  |
| Arg | Glu | Ile | Glu | Glu | Pro | Tyr | Phe | Phe | Leu | Asp | Glu | Phe | Val | Thr |  |  |  |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |  |  |  |
| Phe | Leu | Phe | Ser | Lys | Glu | Asn | Ser | Val | Trp | Asn | Ser | Gln | Leu | Asp |  |  |  |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |  |  |  |
| Ala | Val | Cys | Pro | Asp | Thr | Met | Asn | Asn | Pro | Leu | Ser | His | Tyr | Trp |  |  |  |

|                 |     |                     |     |                     |     |
|-----------------|-----|---------------------|-----|---------------------|-----|
| Ile Ser Ser Ser | 320 | Asn Thr Tyr Leu     | 325 | Gly Asp Gln Phe     | 330 |
|                 | 335 |                     | 340 |                     | 345 |
| Ser Glu Ser Ser | 350 | Leu Glu Ala Tyr Ala | 355 | Arg Cys Leu Arg Met | 360 |
| Cys Arg Cys Ile | 365 | Glu Leu Asp Cys Trp | 370 | Asp Gly Pro Asp Gly | 375 |
| Pro Val Ile Tyr | 380 | His Gly His Thr Leu | 385 | Thr Thr Lys Ile Lys | 390 |
| Ser Asp Val Leu | 395 | His Thr Ile Lys Glu | 400 | His Ala Phe Val Ala | 405 |
| Glu Tyr Pro Val | 410 | Ile Leu Ser Ile Glu | 415 | Asp His Cys Ser Ile | 420 |
| Gln Gln Arg Asn | 425 | Met Ala Gln Tyr Phe | 430 | Lys Lys Val Leu Gly | 435 |
| Thr Leu Leu Thr | 440 | Lys Pro Val Glu Ile | 445 | Ser Ala Asp Gly Leu | 450 |
| Ser Pro Asn Gln | 455 | Leu Lys Arg Lys Ile | 460 | Leu Ile Lys His Lys | 465 |
| Leu Ala Glu Gly | 470 | Ser Ala Tyr Glu Glu | 475 | Val Pro Thr Ser Met | 480 |
| Tyr Ser Glu Asn | 485 | Asp Ile Ser Asn Ser | 490 | Ile Lys Asn Gly Ile | 495 |
| Tyr Leu Glu Asp | 500 | Pro Val Asn His Glu | 505 | Trp Tyr Pro His Tyr | 510 |
| Val Leu Thr Ser | 515 | Ser Lys Ile Tyr Tyr | 520 | Ser Glu Glu Thr Ser | 525 |
| Asp Gln Gly Asn | 530 | Glu Asp Glu Glu Glu | 535 | Pro Lys Glu Val Ser | 540 |
| Ser Thr Glu Leu | 545 | His Ser Asn Glu Lys | 550 | Trp Phe His Gly Lys | 555 |
| Gly Ala Gly Arg | 560 | Asp Gly Arg His Ile | 565 | Ala Glu Arg Leu Leu | 570 |
| Glu Tyr Cys Ile | 575 | Glu Thr Gly Ala Pro | 580 | Asp Gly Ser Phe Leu | 585 |
| Arg Glu Ser Glu | 590 | Thr Phe Val Gly Asp | 595 | Tyr Thr Leu Ser Phe | 600 |
| Arg Asn Gly Lys | 605 | Val Gln His Cys Arg | 610 | Ile His Ser Arg Gln | 615 |
| Ala Gly Thr Pro | 620 | Lys Phe Phe Leu Thr | 625 | Asp Asn Leu Val Phe | 630 |
| Ser Leu Tyr Asp | 635 | Leu Ile Thr His Tyr | 640 | Gln Gln Val Pro Leu | 645 |
| Cys Asn Glu Phe | 650 | Glu Met Arg Leu Ser | 655 | Glu Pro Val Pro Gln | 660 |
| Asn Ala His Glu | 665 | Ser Lys Glu Trp Tyr | 670 | His Ala Ser Leu Thr | 675 |
| Ala Gln Ala Glu | 680 | His Met Leu Met Arg | 685 | Val Pro Arg Asp Gly | 690 |
| Phe Leu Val Arg | 695 | Lys Arg Asn Glu Pro | 700 | Asn Ser Tyr Ala Ile | 705 |
| Phe Arg Ala Glu | 710 | Gly Lys Ile Lys His | 715 | Cys Arg Val Gln Gln | 720 |
| Gly Gln Thr Val | 725 | Met Leu Gly Asn Ser | 730 | Glu Phe Asp Ser Leu | 735 |
| Asp Leu Ile Ser | 740 | Tyr Tyr Glu Lys His | 745 | Pro Leu Tyr Arg Lys | 750 |
| Lys Leu Arg Tyr | 755 | Pro Ile Asn Glu Glu | 760 | Ala Leu Glu Lys Ile | 765 |
| Thr Ala Glu Pro | 770 | Asp Tyr Gly Ala Leu | 775 | Tyr Glu Gly Arg Asn | 780 |
| Gly Phe Tyr Val | 785 | Glu Ala Asn Pro Met | 790 | Pro Thr Phe Lys Cys | 795 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Lys | Ala | Leu | Phe | Asp | Tyr | Lys | Ala | Gln | Arg | Glu | Asp | Glu | Leu | 800 | 805 | 810 |
| Thr | Phe | Ile | Lys | Ser | Ala | Ile | Ile | Gln | Asn | Val | Glu | Lys | Gln | Glu | 815 | 820 | 825 |
| Gly | Gly | Trp | Trp | Arg | Gly | Asp | Tyr | Gly | Gly | Lys | Lys | Gln | Leu | Trp | 830 | 835 | 840 |
| Phe | Pro | Ser | Asn | Tyr | Val | Glu | Glu | Met | Val | Asn | Pro | Val | Ala | Leu | 845 | 850 | 855 |
| Glu | Pro | Glu | Arg | Glu | His | Leu | Asp | Glu | Asn | Ser | Pro | Leu | Gly | Asp | 860 | 865 | 870 |
| Leu | Leu | Arg | Gly | Val | Leu | Asp | Val | Pro | Ala | Cys | Gln | Ile | Ala | Trp | 875 | 880 | 885 |
| Arg | Arg | Trp | Pro | Thr | Gly | Pro | Trp | Met | Leu | Leu | Pro | Thr | His | Arg | 890 | 895 | 900 |
| Arg | Ser | Cys | Arg | Thr | Gly |     |     |     |     |     |     |     |     |     | 905 |     |     |

&lt;210&gt; 5

&lt;211&gt; 1266

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7513134CD1

&lt;400&gt; 5

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Gly | Ala | Ala | Ser | Pro | Cys | Ala | Asn | Gly | Cys | Gly | Pro | Gly | 1   | 5   | 10  | 15  |
| Ala | Pro | Ser | Asp | Ala | Glu | Val | Leu | His | Leu | Cys | Arg | Ser | Leu | Glu | 20  | 25  | 30  | 35  |
| Val | Gly | Thr | Val | Met | Thr | Leu | Phe | Tyr | Ser | Lys | Lys | Ser | Gln | Arg | 40  | 45  | 50  | 55  |
| Pro | Glu | Arg | Lys | Thr | Phe | Gln | Val | Lys | Leu | Glu | Thr | Arg | Gln | Ile | 60  | 65  | 70  | 75  |
| Thr | Trp | Ser | Arg | Gly | Ala | Asp | Lys | Ile | Glu | Gly | Ala | Ile | Asp | Ile | 80  | 85  | 90  | 95  |
| Arg | Glu | Ile | Lys | Glu | Ile | Arg | Pro | Gly | Lys | Thr | Ser | Arg | Asp | Phe | 100 | 105 | 110 | 115 |
| Asp | Arg | Tyr | Gln | Glu | Asp | Pro | Ala | Phe | Arg | Pro | Asp | Gln | Ser | His | 120 | 125 | 130 | 135 |
| Cys | Phe | Val | Ile | Leu | Tyr | Gly | Met | Glu | Phe | Arg | Leu | Lys | Thr | Leu | 140 | 145 | 150 | 155 |
| Ser | Leu | Gln | Ala | Thr | Ser | Glu | Asp | Glu | Val | Asn | Met | Trp | Ile | Lys | 160 | 165 | 170 | 175 |
| Gly | Leu | Thr | Trp | Leu | Met | Glu | Asp | Thr | Leu | Gln | Ala | Pro | Thr | Pro | 180 | 185 | 190 | 195 |
| Leu | Gln | Ile | Glu | Arg | Trp | Leu | Arg | Lys | Gln | Phe | Tyr | Ser | Val | Asp | 200 | 205 | 210 | 215 |
| Arg | Asn | Arg | Glu | Asp | Arg | Ile | Ser | Ala | Lys | Asp | Leu | Lys | Asn | Met | 220 | 225 | 230 | 235 |
| Leu | Ser | Gln | Val | Asn | Tyr | Arg | Val | Pro | Asn | Met | Arg | Phe | Leu | Arg | 240 | 245 | 250 | 255 |
| Glu | Arg | Leu | Thr | Asp | Leu | Glu | Gln | Arg | Ser | Gly | Asp | Ile | Thr | Tyr | 260 | 265 | 270 |     |
| Gly | Gln | Phe | Ala | Gln | Leu | Tyr | Arg | Ser | Leu | Met | Tyr | Ser | Ala | Gln |     |     |     |     |
| Lys | Thr | Met | Asp | Leu | Pro | Phe | Leu | Glu | Ala | Ser | Thr | Leu | Arg | Ala |     |     |     |     |
| Gly | Glu | Arg | Pro | Glu | Leu | Cys | Arg | Val | Ser | Leu | Pro | Glu | Phe | Gln |     |     |     |     |
| Gln | Phe | Leu | Leu | Asp | Tyr | Gln | Gly | Glu | Leu | Trp | Ala | Val | Asp | Arg |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Leu | Gln | Val | Gln | Glu | Phe | Met | Leu | Ser | Phe | Leu | Arg | Asp | Pro | Leu |  |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |  |
| Arg | Glu | Ile | Glu | Glu | Pro | Tyr | Phe | Phe | Leu | Asp | Glu | Phe | Val | Thr |  |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |  |
| Phe | Leu | Phe | Ser | Lys | Glu | Asn | Ser | Val | Trp | Asn | Ser | Gln | Leu | Asp |  |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |  |
| Ala | Val | Cys | Pro | Asp | Thr | Met | Asn | Asn | Pro | Leu | Ser | His | Tyr | Trp |  |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |  |
| Ile | Ser | Ser | Ser | His | Asn | Thr | Tyr | Leu | Thr | Gly | Asp | Gln | Phe | Ser |  |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |  |
| Ser | Glu | Ser | Ser | Leu | Glu | Ala | Tyr | Ala | Arg | Cys | Leu | Arg | Met | Gly |  |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |  |
| Cys | Arg | Cys | Ile | Glu | Leu | Asp | Cys | Trp | Asp | Gly | Pro | Asp | Gly | Met |  |
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |  |
| Pro | Val | Ile | Tyr | His | Gly | His | Thr | Leu | Thr | Thr | Lys | Ile | Lys | Phe |  |
|     |     |     |     | 380 |     |     |     |     | 385 |     |     |     |     | 390 |  |
| Ser | Asp | Val | Leu | His | Thr | Ile | Lys | Glu | His | Ala | Phe | Val | Ala | Ser |  |
|     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     | 405 |  |
| Glu | Tyr | Pro | Val | Ile | Leu | Ser | Ile | Glu | Asp | His | Cys | Ser | Ile | Ala |  |
|     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |     | 420 |  |
| Gln | Gln | Arg | Asn | Met | Ala | Gln | Tyr | Phe | Lys | Lys | Val | Leu | Gly | Asp |  |
|     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |     | 435 |  |
| Thr | Leu | Leu | Thr | Lys | Pro | Val | Glu | Ile | Ser | Ala | Asp | Gly | Leu | Pro |  |
|     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     | 450 |  |
| Ser | Pro | Asn | Gln | Leu | Lys | Arg | Lys | Ile | Leu | Ile | Lys | His | Lys | Lys |  |
|     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     | 465 |  |
| Leu | Ala | Glu | Gly | Ser | Ala | Tyr | Glu | Glu | Val | Pro | Thr | Ser | Met | Met |  |
|     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |  |
| Tyr | Ser | Glu | Asn | Asp | Ile | Ser | Asn | Ser | Ile | Lys | Asn | Gly | Ile | Leu |  |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |  |
| Tyr | Leu | Glu | Asp | Pro | Val | Asn | His | Glu | Trp | Tyr | Pro | His | Tyr | Phe |  |
|     |     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |  |
| Val | Leu | Thr | Ser | Ser | Lys | Ile | Tyr | Tyr | Ser | Glu | Glu | Thr | Ser | Ser |  |
|     |     |     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |  |
| Asp | Gln | Gly | Asn | Glu | Asp | Glu | Glu | Glu | Pro | Lys | Glu | Val | Ser | Ser |  |
|     |     |     |     | 530 |     |     |     |     | 535 |     |     |     |     | 540 |  |
| Ser | Thr | Glu | Leu | His | Ser | Asn | Glu | Lys | Trp | Phe | His | Gly | Lys | Leu |  |
|     |     |     |     | 545 |     |     |     |     | 550 |     |     |     |     | 555 |  |
| Gly | Ala | Gly | Arg | Asp | Gly | Arg | His | Ile | Ala | Glu | Arg | Leu | Leu | Thr |  |
|     |     |     |     | 560 |     |     |     |     | 565 |     |     |     |     | 570 |  |
| Glu | Tyr | Cys | Ile | Glu | Thr | Gly | Ala | Pro | Asp | Gly | Ser | Phe | Leu | Val |  |
|     |     |     |     | 575 |     |     |     |     | 580 |     |     |     |     | 585 |  |
| Arg | Glu | Ser | Glu | Thr | Phe | Val | Gly | Asp | Tyr | Thr | Leu | Ser | Phe | Trp |  |
|     |     |     |     | 590 |     |     |     |     | 595 |     |     |     |     | 600 |  |
| Arg | Asn | Gly | Lys | Val | Gln | His | Cys | Arg | Ile | His | Ser | Arg | Gln | Asp |  |
|     |     |     |     | 605 |     |     |     |     | 610 |     |     |     |     | 615 |  |
| Ala | Gly | Thr | Pro | Lys | Phe | Phe | Leu | Thr | Asp | Asn | Leu | Val | Phe | Asp |  |
|     |     |     |     | 620 |     |     |     |     | 625 |     |     |     |     | 630 |  |
| Ser | Leu | Tyr | Asp | Leu | Ile | Thr | His | Tyr | Gln | Gln | Val | Pro | Leu | Arg |  |
|     |     |     |     | 635 |     |     |     |     | 640 |     |     |     |     | 645 |  |
| Cys | Asn | Glu | Phe | Glu | Met | Arg | Leu | Ser | Glu | Pro | Val | Pro | Gln | Thr |  |
|     |     |     |     | 650 |     |     |     |     | 655 |     |     |     |     | 660 |  |
| Asn | Ala | His | Glu | Ser | Lys | Glu | Trp | Tyr | His | Ala | Ser | Leu | Thr | Arg |  |
|     |     |     |     | 665 |     |     |     |     | 670 |     |     |     |     | 675 |  |
| Ala | Gln | Ala | Glu | His | Met | Leu | Met | Arg | Val | Pro | Arg | Asp | Gly | Ala |  |
|     |     |     |     | 680 |     |     |     |     | 685 |     |     |     |     | 690 |  |
| Phe | Leu | Val | Arg | Lys | Arg | Asn | Glu | Pro | Asn | Ser | Tyr | Ala | Ile | Ser |  |
|     |     |     |     | 695 |     |     |     |     | 700 |     |     |     |     | 705 |  |
| Phe | Arg | Ala | Glu | Gly | Lys | Ile | Lys | His | Cys | Arg | Val | Gln | Gln | Glu |  |
|     |     |     |     | 710 |     |     |     |     | 715 |     |     |     |     | 720 |  |
| Gly | Gln | Thr | Val | Met | Leu | Gly | Asn | Ser | Glu | Phe | Asp | Ser | Leu | Val |  |
|     |     |     |     | 725 |     |     |     |     | 730 |     |     |     |     | 735 |  |
| Asp | Leu | Ile | Ser | Tyr | Tyr | Glu | Lys | His | Pro | Leu | Tyr | Arg | Lys | Met |  |

|     |     |     |     |      |     |     |     |     |     |      |     |     |     |     |     |     |      |
|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|
| Lys | Leu | Arg | Tyr | 740  | Pro | Ile | Asn | Glu | Glu | 745  | Ala | Leu | Glu | Lys | Ile | Gly | 750  |
| Thr | Ala | Glu | Pro | 755  | Asp | Tyr | Gly | Ala | Leu | 760  | Tyr | Glu | Gly | Arg | Asn | Pro | 765  |
| Gly | Phe | Tyr | Val | 770  | Glu | Ala | Asn | Pro | Met | 775  | Pro | Thr | Phe | Lys | Cys | Ala | 780  |
| Val | Lys | Ala | Leu | 785  | Phe | Asp | Tyr | Lys | Ala | 790  | Gln | Arg | Glu | Asp | Glu | Leu | 795  |
| Thr | Phe | Ile | Lys | 800  | Ser | Ala | Ile | Ile | Gln | 805  | Asn | Val | Glu | Lys | Gln | Glu | 810  |
| Gly | Gly | Trp | Trp | 815  | Arg | Gly | Asp | Tyr | Gly | 820  | Gly | Lys | Lys | Gln | Leu | Trp | 825  |
| Phe | Pro | Ser | Asn | 830  | Tyr | Val | Glu | Glu | Met | 835  | Val | Asn | Pro | Val | Ala | Leu | 840  |
| Glu | Pro | Glu | Arg | 845  | Glu | His | Leu | Asp | Glu | 850  | Asn | Ser | Pro | Leu | Gly | Asp | 855  |
| Leu | Leu | Arg | Gly | 860  | Val | Leu | Asp | Val | Pro | 865  | Ala | Cys | Gln | Ile | Ala | Ile | 870  |
| Arg | Pro | Glu | Gly | 875  | Lys | Asn | Asn | Arg | Leu | 880  | Phe | Val | Phe | Ser | Ile | Ser | 885  |
| Met | Ala | Ser | Val | 890  | Ala | His | Trp | Ser | Leu | 895  | Asp | Val | Ala | Ala | Asp | Ser | 900  |
| Gln | Glu | Glu | Leu | 905  | Gln | Asp | Trp | Val | Lys | 910  | Lys | Ile | Arg | Glu | Val | Ala | 915  |
| Gln | Thr | Ala | Asp | 920  | Ala | Arg | Leu | Thr | Glu | 925  | Gly | Lys | Ile | Met | Glu | Arg | 930  |
| Arg | Lys | Lys | Ile | 935  | Ala | Leu | Glu | Leu | Ser | 940  | Glu | Leu | Val | Val | Tyr | Cys | 945  |
| Arg | Pro | Val | Pro | 950  | Phe | Asp | Glu | Glu | Lys | 955  | Ile | Gly | Thr | Glu | Arg | Ala | 960  |
| Cys | Tyr | Arg | Asp | 965  | Met | Ser | Ser | Phe | Pro | 970  | Glu | Thr | Lys | Ala | Glu | Lys | 975  |
| Tyr | Val | Asn | Lys | 980  | Ala | Lys | Gly | Lys | Lys | 985  | Phe | Leu | Gln | Tyr | Asn | Arg | 990  |
| Leu | Gln | Leu | Ser | 995  | Arg | Ile | Tyr | Pro | Lys | 1000 | Gly | Gln | Arg | Leu | Asp | Ser | 1005 |
| Ser | Asn | Tyr | Asp | 1010 | Pro | Leu | Pro | Met | Trp | 1015 | Ile | Cys | Gly | Ser | Gln | Leu | 1020 |
| Val | Ala | Leu | Asn | 1025 | Phe | Gln | Thr | Pro | Asp | 1030 | Lys | Pro | Met | Gln | Met | Asn | 1035 |
| Gln | Ala | Leu | Phe | 1040 | Met | Thr | Gly | Arg | His | 1045 | Cys | Gly | Tyr | Val | Leu | Gln | 1050 |
| Pro | Ser | Thr | Met | 1055 | Arg | Asp | Glu | Ala | Phe | 1060 | Asp | Pro | Phe | Asp | Lys | Ser | 1065 |
| Ser | Leu | Arg | Gly | 1070 | Leu | Glu | Pro | Cys | Ala | 1075 | Ile | Ser | Ile | Glu | Val | Leu | 1080 |
| Gly | Ala | Arg | His | 1085 | Leu | Pro | Lys | Asn | Gly | 1090 | Arg | Gly | Ile | Val | Cys | Pro | 1095 |
| Phe | Val | Glu | Ile | 1100 | Glu | Val | Ala | Gly | Ala | 1105 | Glu | Tyr | Asp | Ser | Thr | Lys | 1110 |
| Gln | Lys | Thr | Glu | 1115 | Phe | Val | Val | Asp | Asn | 1120 | Gly | Leu | Asn | Pro | Val | Trp | 1125 |
| Pro | Ala | Lys | Pro | 1130 | Phe | His | Phe | Gln | Ile | 1135 | Ser | Asn | Pro | Glu | Phe | Ala | 1140 |
| Phe | Leu | Arg | Phe | 1145 | Val | Val | Tyr | Glu | Glu | 1150 | Asp | Met | Phe | Ser | Asp | Gln | 1155 |
| Asn | Phe | Leu | Ala | 1160 | Gln | Ala | Thr | Phe | Pro | 1165 | Val | Lys | Gly | Leu | Lys | Thr | 1170 |
| Gly | Tyr | Arg | Ala | 1175 | Val | Pro | Leu | Lys | Asn | 1180 | Asn | Tyr | Ser | Glu | Asp | Leu | 1185 |
| Glu | Leu | Ala | Ser | 1190 | Leu | Leu | Ile | Lys | Ile | 1195 | Asp | Ile | Phe | Pro | Ala | Lys | 1200 |
|     |     |     |     | 1205 |     |     |     |     |     | 1210 |     |     |     |     |     |     | 1215 |



Gly Pro Lys Lys Asp Ser Gly Gln Trp Arg Gln Pro Pro Leu Val  
 1220 1225 1230  
 Val Pro Gln Pro Arg Trp Arg Ala Ala Gly Ala Val Arg Leu Val  
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 Glu Cys Arg Glu Leu Gly Ser Leu Glu Ala Ala Pro Cys Gly Gly  
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 <212> PRT  
 <213> Homo sapiens

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 35 40 45  
 Lys Val Ile Gln Thr Ala Phe Gln Arg Ala Ser Tyr Pro Asp Ile  
 50 55 60  
 Thr Gly Glu Lys Ala Met Met Leu Leu Gly Gln Val Lys Tyr Gly  
 65 70 75  
 Leu His Asn Ile Gln Ile Ser His Leu Ser Ile Ala Ser Ser Gln  
 80 85 90  
 Val Glu Leu Val Glu Ala Lys Ser Ile Asp Val Ser Ile Gln Asn  
 95 100 105  
 Val Ser Val Val Phe Lys Gly Thr Leu Lys Tyr Gly Tyr Thr Thr  
 110 115 120  
 Ala Trp Trp Leu Gly Ile His Gln Ser Ile Asp Phe Glu Ile Asp  
 125 130 135  
 Ser Ala Ile Asp Leu Gln Ile Asn Thr Gln Leu Thr Cys Asp Ser  
 140 145 150  
 Gly Arg Val Arg Thr Asp Ala Pro Asp Cys Tyr Leu Ser Phe His  
 155 160 165  
 Lys Leu Leu Leu His Leu Gln Gly Glu Arg Glu Pro Gly Trp Ile  
 170 175 180  
 Lys Gln Leu Phe Thr Asn Phe Ile Ser Phe Thr Leu Lys Leu Val  
 185 190 195  
 Leu Lys Gly Gln Ile Cys Lys Glu Ile Asn Val Ile Ser Asn Ile  
 200 205 210  
 Met Ala Asp Phe Val Gln Thr Arg Ala Ala Ser Ile Leu Ser Asp  
 215 220 225  
 Gly Asp Ile Gly Val Asp Ile Ser Leu Thr Gly Asn Pro Val Ile  
 230 235 240  
 Thr Ala Ser Tyr Leu Glu Ser His His Lys Ala Val Leu Gln Thr  
 245 250 255  
 Trp Gly Phe Asn Thr Asn Gln Glu Ile Phe Gln Glu Val Val Gly  
 260 265 270  
 Gly Phe Pro Ser Gln Ala Gln Val Thr Val His Cys Leu Lys Met  
 275 280 285  
 Pro Lys Ile Ser Cys Gln Asn Lys Gly Val Val Val Asn Ser Ser  
 290 295 300  
 Val Met Val Lys Phe Leu Phe Pro Arg Pro Asp Gln Gln His Ser  
 305 310 315  
 Val Ala Tyr Thr Phe Glu Glu Asp Ile Val Thr Thr Val Gln Ala  
 320 325 330



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Ser Tyr Ser Lys Lys Lys Leu Phe Leu Ser Leu Leu Asp Phe Gln
335 340 345
Ile Thr Pro Lys Thr Val Ser Asn Leu Thr Glu Ser Ser Ser Glu
350 355 360
Ser Ile Gln Ser Phe Leu Gln Ser Met Ile Thr Ala Val Gly Ile
365 370 375
Pro Glu Val Met Ser Arg Leu Glu Val Val Phe Thr Ala Leu Met
380 385 390
Asn Ser Lys Gly Val Ser Leu Phe Asp Ile Ile Asn Pro Glu Ile
395 400 405
Ile Thr Arg Asp Gly Phe Leu Leu Leu Gln Met Asp Phe Gly Phe
410 415 420
Pro Glu His Leu Leu Val Asp Phe Leu Gln Ser Leu Ser
425 430

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&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

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Gln Gln Thr Thr Ala Phe Arg His Pro Val Thr Gly Gln Phe Ser
35 40 45
Pro Glu Asn Ser Glu Phe Ile Leu Gln Glu Glu Pro Asn Pro His
50 55 60
Met Ser Lys Gln Asp Arg Asn Gln Arg Pro Ser Ser Met Val Ser
65 70 75
Glu Thr Ser Thr Ala Gly Thr Ala Ser Thr Leu Glu Ala Lys Pro
80 85 90
Gly Pro Lys Ile Ile Lys Ser Ser Ser Lys Val His Ser Phe Gly
95 100 105
Lys Arg Asp Gln Ala Ile Arg Arg Asn Pro Asn Val Pro Val Val
110 115 120
Val Arg Gly Trp Leu His Lys Gln Asp Ser Ser Gly Met Arg Leu
125 130 135
Trp Lys Arg Arg Trp Phe Val Leu Ala Asp Tyr Cys Leu Phe Tyr
140 145 150
Tyr Lys Asp Ser Arg Glu Glu Ala Val Leu Gly Ser Ile Pro Leu
155 160 165
Pro Ser Tyr Val Ile Ser Pro Val Ala Pro Glu Asp Arg Ile Ser
170 175 180
Arg Lys Tyr Ser Phe Lys Ala Val His Thr Gly Met Arg Ala Leu
185 190 195
Ile Tyr Asn Ser Ser Thr Ala Gly Ser Gln Ala Glu Gln Ser Gly
200 205 210
Met Arg Thr Tyr Tyr Phe Ser Ala Asp Thr Gln Glu Asp Met Asn
215 220 225
Ala Trp Val Arg Ala Met Asn Gln Ala Ala Gln Val Leu Ser Arg
230 235 240
Ser Ser Leu Lys Arg Asp Met Glu Lys Val Glu Arg Gln Ala Val
245 250 255
Pro Gln Ala Asn His Thr Glu Ser Cys His Glu Cys Gly Arg Val
260 265 270
Gly Pro Gly His Thr Arg Asp Cys Pro His Arg Gly His Asp Asp
275 280 285

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|                 |                     |                     |     |
|-----------------|---------------------|---------------------|-----|
| Ile Val Asn Phe | Glu Arg Gln Glu Gln | Glu Gly Glu Gln Tyr | Arg |
|                 | 290                 | 295                 | 300 |
| Ser Gln Arg Asp | Pro Leu Glu Gly Lys | Arg Asp Arg Ser Lys | Ala |
|                 | 305                 | 310                 | 315 |
| Arg Ser Pro Tyr | Ser Pro Ala Glu Glu | Asp Ala Leu Phe Met | Asp |
|                 | 320                 | 325                 | 330 |
| Leu Pro Thr Gly | Pro Arg Gly Gln Gln | Ala Gln Pro Gln Arg | Ala |
|                 | 335                 | 340                 | 345 |
| Glu Lys Asn Gly | Met Leu Pro Ala Ser | Tyr Gly Pro Gly Glu | Gln |
|                 | 350                 | 355                 | 360 |
| Asn Gly Thr Gly | Gly Tyr Gln Arg Ala | Phe Pro Pro Arg Thr | Asn |
|                 | 365                 | 370                 | 375 |
| Pro Glu Lys His | Ser Gln Arg Lys Ser | Asn Leu Ala Gln Val | Glu |
|                 | 380                 | 385                 | 390 |
| His Trp Ala Arg | Ala Gln Lys Gly Asp | Ser Arg Ser Leu Pro | Leu |
|                 | 395                 | 400                 | 405 |
| Asp Gln Thr Leu | Pro Arg Gln Gly Pro | Gly Gln Ser Leu Ser | Phe |
|                 | 410                 | 415                 | 420 |
| Pro Glu Asn Tyr | Gln Thr Leu Pro Lys | Ser Thr Arg His Pro | Ser |
|                 | 425                 | 430                 | 435 |
| Gly Gly Ser Ser | Pro Pro Pro Arg Asn | Leu Pro Ser Asp Tyr | Lys |
|                 | 440                 | 445                 | 450 |
| Tyr Ala Gln Asp | Arg Ala Ser His Leu | Lys Met Ser Ser Glu | Glu |
|                 | 455                 | 460                 | 465 |
| Arg Arg Ala His | Arg Asp Gly Thr Val | Trp Gln Leu Tyr Glu | Trp |
|                 | 470                 | 475                 | 480 |
| Gln Gln Arg Gln | Gln Phe Arg His Gly | Ser Pro Thr Ala Pro | Ile |
|                 | 485                 | 490                 | 495 |
| Cys Leu Gly Ser | Pro Glu Phe Thr Asp | Gln Gly Arg Ser Arg | Ser |
|                 | 500                 | 505                 | 510 |
| Met Leu Glu Val | Pro Arg Ser Ile Ser | Val Pro Pro Ser Pro | Ser |
|                 | 515                 | 520                 | 525 |
| Asp Ile Pro Pro | Pro Gly Pro Pro Arg | Val Phe Pro Pro Arg | Arg |
|                 | 530                 | 535                 | 540 |
| Pro His Thr Pro | Ala Glu Arg Val Thr | Val Lys Pro Pro Asp | Gln |
|                 | 545                 | 550                 | 555 |
| Arg Arg Ser Val | Asp Ile Ser Leu Gly | Asp Ser Pro Arg Arg | Ala |
|                 | 560                 | 565                 | 570 |
| Arg Gly His Ala | Val Lys Asn Ser Ser | His Val Asp Arg Arg | Ser |
|                 | 575                 | 580                 | 585 |
| Met Pro Ser Met | Gly Tyr Met Thr His | Thr Val Ser Ala Pro | Ser |
|                 | 590                 | 595                 | 600 |
| Leu His Gly Lys | Ser Ala Asp Asp Thr | Tyr Leu Gln Leu Lys | Lys |
|                 | 605                 | 610                 | 615 |
| Asp Leu Glu Tyr | Leu Asp Leu Lys Met | Thr Gly Arg Asp Leu | Leu |
|                 | 620                 | 625                 | 630 |
| Lys Asp Arg Ser | Leu Lys Pro Val Lys | Ile Ala Glu Ser Asp | Thr |
|                 | 635                 | 640                 | 645 |
| Asp Val Lys Leu | Ser Ile Phe Cys Glu | Gln Asp Arg Val Leu | Gln |
|                 | 650                 | 655                 | 660 |
| Asp Leu Glu Asp | Lys Ile Arg Ala Leu | Lys Glu Asn Lys Asp | Gln |
|                 | 665                 | 670                 | 675 |
| Leu Glu Ser Val | Leu Glu Val Leu His | Arg Gln Met Glu Gln | Tyr |
|                 | 680                 | 685                 | 690 |
| Arg Asp Gln Pro | Gln His Leu Glu Lys | Ile Ala Tyr Gln Gln | Lys |
|                 | 695                 | 700                 | 705 |
| Leu Leu Gln Glu | Asp Leu Val His Ile | Arg Ala Glu Leu Ser | Arg |
|                 | 710                 | 715                 | 720 |
| Glu Ser Thr Glu | Met Glu Asn Ala Trp | Asn Glu Tyr Leu Lys | Leu |
|                 | 725                 | 730                 | 735 |
| Glu Asn Asp Val | Glu Gln Leu Lys Gln | Thr Leu Gln Glu Gln | His |
|                 | 740                 | 745                 | 750 |
| Arg Arg Ala Phe | Phe Phe Gln Glu Lys | Ser Gln Ile Gln Lys | Asp |

|     |     |     |     |      |     |     |     |     |      |     |     |     |     |      |
|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-----|-----|-----|-----|------|
|     |     |     |     | 755  |     |     |     |     | 760  |     |     |     |     | 765  |
| Leu | Trp | Arg | Ile | Glu  | Asp | Val | Thr | Ala | Gly  | Leu | Ser | Ala | Asn | Lys  |
|     |     |     |     | 770  |     |     |     |     | 775  |     |     |     |     | 780  |
| Glu | Asn | Phe | Arg | Ile  | Leu | Val | Glu | Ser | Val  | Lys | Asn | Pro | Glu | Arg  |
|     |     |     |     | 785  |     |     |     |     | 790  |     |     |     |     | 795  |
| Lys | Thr | Val | Pro | Leu  | Phe | Pro | His | Pro | Pro  | Val | Pro | Ser | Leu | Ser  |
|     |     |     |     | 800  |     |     |     |     | 805  |     |     |     |     | 810  |
| Thr | Ser | Glu | Ser | Lys  | Pro | Pro | Pro | Gln | Pro  | Ser | Pro | Pro | Thr | Ser  |
|     |     |     |     | 815  |     |     |     |     | 820  |     |     |     |     | 825  |
| Pro | Val | Arg | Thr | Pro  | Leu | Glu | Val | Arg | Leu  | Phe | Pro | Gln | Leu | Gln  |
|     |     |     |     | 830  |     |     |     |     | 835  |     |     |     |     | 840  |
| Thr | Tyr | Val | Pro | Tyr  | Arg | Pro | His | Pro | Pro  | Gln | Leu | Arg | Lys | Val  |
|     |     |     |     | 845  |     |     |     |     | 850  |     |     |     |     | 855  |
| Thr | Ser | Pro | Leu | Gln  | Ser | Pro | Thr | Lys | Ala  | Lys | Pro | Lys | Val | Gln  |
|     |     |     |     | 860  |     |     |     |     | 865  |     |     |     |     | 870  |
| Glu | Asp | Glu | Ala | Pro  | Pro | Arg | Pro | Pro | Leu  | Pro | Glu | Leu | Tyr | Ser  |
|     |     |     |     | 875  |     |     |     |     | 880  |     |     |     |     | 885  |
| Pro | Glu | Asp | Gln | Pro  | Pro | Ala | Val | Pro | Pro  | Leu | Pro | Arg | Glu | Ala  |
|     |     |     |     | 890  |     |     |     |     | 895  |     |     |     |     | 900  |
| Thr | Ile | Ile | Arg | His  | Thr | Ser | Val | Arg | Gly  | Leu | Lys | Arg | Gln | Ser  |
|     |     |     |     | 905  |     |     |     |     | 910  |     |     |     |     | 915  |
| Asp | Glu | Arg | Lys | Arg  | Asp | Arg | Glu | Leu | Gly  | Gln | Cys | Val | Asn | Gly  |
|     |     |     |     | 920  |     |     |     |     | 925  |     |     |     |     | 930  |
| Asp | Ser | Arg | Val | Glu  | Leu | Arg | Ser | Tyr | Val  | Ser | Glu | Pro | Glu | Leu  |
|     |     |     |     | 935  |     |     |     |     | 940  |     |     |     |     | 945  |
| Ala | Thr | Leu | Ser | Gly  | Asp | Met | Ala | Gln | Pro  | Ser | Leu | Gly | Leu | Val  |
|     |     |     |     | 950  |     |     |     |     | 955  |     |     |     |     | 960  |
| Gly | Pro | Glu | Ser | Arg  | Tyr | Gln | Thr | Leu | Pro  | Gly | Arg | Gly | Leu | Ser  |
|     |     |     |     | 965  |     |     |     |     | 970  |     |     |     |     | 975  |
| Gly | Ser | Thr | Ser | Arg  | Leu | Gln | Gln | Ser | Ser  | Thr | Ile | Ala | Pro | Tyr  |
|     |     |     |     | 980  |     |     |     |     | 985  |     |     |     |     | 990  |
| Val | Thr | Leu | Arg | Arg  | Gly | Leu | Asn | Ala | Glu  | Ser | Ser | Lys | Ala | Thr  |
|     |     |     |     | 995  |     |     |     |     | 1000 |     |     |     |     | 1005 |
| Phe | Pro | Arg | Pro | Lys  | Ser | Ala | Leu | Glu | Arg  | Leu | Tyr | Ser | Gly | Asp  |
|     |     |     |     | 1010 |     |     |     |     | 1015 |     |     |     |     | 1020 |
| His | Gln | Arg | Gly | Lys  | Met | Ser | Ala | Glu | Glu  | Gln | Leu | Glu | Arg | Met  |
|     |     |     |     | 1025 |     |     |     |     | 1030 |     |     |     |     | 1035 |
| Lys | Arg | His | Gln | Lys  | Ala | Leu | Val | Arg | Glu  | Arg | Lys | Arg | Thr | Leu  |
|     |     |     |     | 1040 |     |     |     |     | 1045 |     |     |     |     | 1050 |
| Gly | Gln | Gly | Glu | Arg  | Thr | Gly | Leu | Pro | Ser  | Ser | Arg | Tyr | Leu | Ser  |
|     |     |     |     | 1055 |     |     |     |     | 1060 |     |     |     |     | 1065 |
| Arg | Pro | Leu | Pro | Gly  | Asp | Leu | Gly | Ser | Val  | Cys |     |     |     |      |
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 35 40 45  
 Leu Glu Thr Ile Thr Ile Pro Asp Leu Arg Arg Lys Glu Gly His  
 50 55 60  
 Phe Tyr Tyr Asn Ile Ser Glu Pro Gly Leu Glu Arg Gly Ala Asp

|   |    |  |    |  |    |
|---|----|--|----|--|----|
|   | 65 |  | 70 |  | 75 |
| Lys Phe Pro Val Val Gly Gly Ser Ser Leu Phe Leu Ala Leu Asp |    |  |    |  |    |
|   | 80 |  | 85 |  | 90 |
| Leu Thr Leu Arg Pro Pro Val Gly                             |    |  |    |  |    |
|   | 95 |  |    |  |    |

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|   |     |     |
|---|-----|-----|
| Met Glu Ser Ser Ser Ser Ser Asn Ser Tyr Phe Ser Val Gly Pro |     |     |
| 1   | 5   | 10  |
| Thr Ser Pro Ser Ala Val Val Leu Leu Tyr Ser Leu Ser Lys Glu |     |     |
|   | 20  | 25  |
| Ser Leu Gln Ser Val Asp Val Leu Arg Glu Glu Val Ser Glu Ile |     |     |
|   | 35  | 40  |
| Leu Asp Glu Met Ser His Lys Leu Arg Leu Gly Ala Ile Arg Phe |     |     |
|   | 50  | 55  |
| Cys Ala Phe Thr Leu Ser Lys Val Phe Lys Gln Ile Phe Ser Lys |     |     |
|   | 65  | 70  |
| Val Cys Val Asn Glu Glu Gly Ile Gln Lys Leu Gln Arg Ala Ile |     |     |
|   | 80  | 85  |
| Gln Glu His Pro Val Val Leu Leu Pro Ser His Arg Ser Tyr Ile |     |     |
|   | 95  | 100 |
| Asp Phe Leu Met Leu Ser Phe Leu Leu Tyr Asn Tyr Asp Leu Pro |     |     |
|   | 110 | 115 |
| Val Pro Val Ile Ala Ala Gly Met Asp Phe Leu Gly Met Lys Met |     |     |
|   | 125 | 130 |
| Val Gly Glu Leu Leu Arg Met Ser Gly Ala Phe Phe Met Arg Arg |     |     |
|   | 140 | 145 |
| Thr Phe Gly Gly Asn Lys Leu Tyr Trp Ala Val Phe Ser Glu Tyr |     |     |
|   | 155 | 160 |
| Val Lys Thr Met Leu Arg Asn Gly Tyr Ala Pro Val Glu Phe Phe |     |     |
|   | 170 | 175 |
| Leu Glu Gly Thr Arg Ser Arg Ser Ala Lys Thr Leu Thr Pro Lys |     |     |
|   | 185 | 190 |
| Phe Gly Leu Leu Asn Ile Val Met Glu Pro Phe Phe Lys Arg Glu |     |     |
|   | 200 | 205 |
| Val Phe Asp Thr Tyr Leu Val Pro Ile Ser Ile Ser Tyr Asp Lys |     |     |
|   | 215 | 220 |
| Ile Leu Glu Glu Thr Leu Tyr Val Tyr Glu Leu Leu Gly Val Pro |     |     |
|   | 230 | 235 |
| Lys Pro Lys Glu Ser Thr Thr Gly Leu Leu Lys Ala Arg Lys Ile |     |     |
|   | 245 | 250 |
| Leu Ser Glu Asn Phe Gly Ser Ile His Val Tyr Phe Gly Asp Pro |     |     |
|   | 260 | 265 |
| Val Ser Leu Arg Ser Leu Ala Ala Gly Arg Met Ser Arg Ser Ser |     |     |
|   | 275 | 280 |
| Tyr Asn Leu Val Pro Arg Tyr Ile Pro Gln Lys Gln Ser Glu Asp |     |     |
|   | 290 | 295 |
| Met His Ala Phe Val Thr Glu Val Ala Tyr Lys Met Glu Leu Leu |     |     |
|   | 305 | 310 |
| Gln Ile Glu Asn Met Val Leu Ser Pro Trp Thr Leu Ile Val Ala |     |     |
|   | 320 | 325 |
| Val Leu Leu Gln Asn Arg Pro Ser Met Asp Phe Asp Ala Leu Val |     |     |
|   | 335 | 340 |
| Glu Lys Thr Leu Trp Leu Lys Gly Leu Thr Gln Ala Phe Gly Gly |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Leu | Ile | Trp | 350 | Pro | Asp | Asn | Lys | Pro | 355 | Ala | Glu | Glu | Val | Val | 360 | Pro |
| Ala | Ser | Ile | Leu | 365 | Leu | His | Ser | Asn | Ile | 370 | Ala | Ser | Leu | Val | Lys | 375 | Asp |
| Gln | Val | Ile | Leu | 380 | Lys | Val | Asp | Ser | Gly | 385 | Asp | Ser | Glu | Val | Val | 390 | Asp |
| Gly | Leu | Met | Leu | 395 | Gln | His | Ile | Thr | Leu | 400 | Leu | Met | Cys | Ser | Ala | 405 | Tyr |
| Arg | Asn | Gln | Leu | 410 | Leu | Asn | Ile | Phe | Val | 415 | Arg | Pro | Ser | Leu | Val | 420 | Ala |
| Val | Ala | Leu | Gln | 425 | Met | Thr | Pro | Gly | Phe | 430 | Arg | Lys | Glu | Asp | Val | 435 | Tyr |
| Ser | Cys | Phe | Arg | 440 | Phe | Leu | Arg | Asp | Val | 445 | Phe | Ala | Asp | Glu | Phe | 450 | Ile |
| Phe | Leu | Pro | Gly | 455 | Asn | Thr | Leu | Lys | Asp | 460 | Phe | Glu | Glu | Gly | Cys | 465 | Tyr |
| Leu | Leu | Cys | Lys | 470 | Ser | Glu | Ala | Ile | Gln | 475 | Val | Thr | Thr | Lys | Asp | 480 | Ile |
| Leu | Val | Thr | Glu | 485 | Lys | Gly | Asn | Thr | Val | 490 | Leu | Glu | Phe | Leu | Val | 495 | Gly |
| Leu | Phe | Lys | Pro | 500 | Phe | Val | Glu | Ser | Tyr | 505 | Gln | Ile | Ile | Cys | Lys | 510 | Tyr |
| Leu | Leu | Ser | Glu | 515 | Glu | Glu | Asp | His | Phe | 520 | Ser | Glu | Glu | Gln | Tyr | 525 | Leu |
| Ala | Ala | Val | Arg | 530 | Lys | Phe | Thr | Ser | Gln | 535 | Leu | Leu | Asp | Gln | Gly | 540 | Thr |
| Ser | Gln | Cys | Tyr | 545 | Asp | Val | Leu | Ser | Ser | 550 | Asp | Val | Gln | Lys | Asn | 555 | Ala |
| Leu | Ala | Ala | Cys | 560 | Val | Arg | Leu | Gly | Val | 565 | Val | Glu | Lys | Lys | Lys | 570 | Ile |
| Asn | Asn | Asn | Cys | 575 | Ile | Phe | Asn | Val | Asn | 580 | Glu | Pro | Ala | Thr | Thr | 585 | Lys |
| Leu | Glu | Glu | Met | 590 | Leu | Gly | Cys | Lys | Thr | 595 | Pro | Ile | Gly | Lys | Pro | 600 | Ala |
| Thr | Ala | Lys | Leu | 605 |     |     |     |     |     | 610 |     |     |     |     |     | 615 |     |

&lt;210&gt; 10

&lt;211&gt; 1433

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7513162CD1

&lt;400&gt; 10

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Gly | Leu | Arg | Pro | Gly | Ile | Phe | Leu | Leu | Glu | Leu | Leu | Leu | Leu | Leu | 15  |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     |     |     | 20  |
| Leu | Gly | Gln | Gly | Thr | Pro | Gln | Ile | His | Thr | Ser | Pro | Arg | Lys | Ser |     | 30  |
|     |     |     |     | 20  |     |     |     | 25  |     |     |     |     |     |     |     | 35  |
| Thr | Leu | Glu | Gly | Gln | Leu | Trp | Pro | Glu | Thr | Leu | Lys | Asn | Ser | Pro |     | 45  |
|     |     |     |     | 35  |     |     |     | 40  |     |     |     |     |     |     |     | 50  |
| Phe | Pro | Cys | Asn | Pro | Asn | Lys | Leu | Gly | Val | Asn | Met | Pro | Ser | Lys |     | 60  |
|     |     |     |     | 50  |     |     |     | 55  |     |     |     |     |     |     |     | 65  |
| Ser | Val | His | Ser | Leu | Lys | Pro | Ser | Asp | Ile | Lys | Phe | Val | Ala | Ala |     | 75  |
|     |     |     |     | 65  |     |     |     | 70  |     |     |     |     |     |     |     | 80  |
| Ile | Gly | Asn | Leu | Glu | Ile | Pro | Pro | Asp | Pro | Gly | Thr | Gly | Asp | Leu |     | 90  |
|     |     |     |     | 80  |     |     |     | 85  |     |     |     |     |     |     |     | 95  |
| Glu | Lys | Gln | Asp | Trp | Thr | Glu | Arg | Pro | Gln | Gln | Val | Cys | Met | Gly |     | 105 |
|     |     |     |     | 95  |     |     |     | 100 |     |     |     |     |     |     |     | 110 |
| Val | Met | Thr | Val | Leu | Ser | Asp | Ile | Ile | Arg | Tyr | Phe | Ser | Pro | Ser |     | 115 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Pro | Met | Pro | 110 | Val | Cys | His | Thr | Gly | 115 | Lys | Arg | Val | Ile | Pro | His | 120 |
| Asp | Gly | Ala | Glu | 125 | Asp | Leu | Trp | Ile | Gln | 130 | Ala | Gln | Glu | Leu | Val | Arg | 135 |
| Asn | Met | Lys | Glu | 140 | Asn | Leu | Gln | Leu | Asp | 145 | Phe | Gln | Phe | Asp | Trp | Lys | 150 |
| Leu | Ile | Asn | Val | 155 | Phe | Phe | Ser | Asn | Ala | 160 | Ser | Gln | Cys | Tyr | Leu | Cys | 165 |
| Pro | Ser | Ala | Gln | 170 | Gln | Asn | Gly | Leu | Ala | 175 | Ala | Gly | Gly | Val | Asp | Glu | 180 |
| Leu | Met | Gly | Val | 185 | Leu | Asp | Tyr | Leu | Gln | 190 | Gln | Glu | Val | Pro | Arg | Ala | 195 |
| Phe | Val | Asn | Leu | 200 | Val | Asp | Leu | Ser | Glu | 205 | Val | Ala | Glu | Val | Ser | Arg | 210 |
| Gln | Tyr | His | Gly | 215 | Thr | Trp | Leu | Ser | Pro | 220 | Ala | Pro | Glu | Pro | Cys | Asn | 225 |
| Cys | Ser | Glu | Glu | 230 | Thr | Thr | Arg | Leu | Ala | 235 | Lys | Val | Val | Met | Gln | Trp | 240 |
| Ser | Tyr | Gln | Glu | 245 | Ala | Trp | Asn | Ser | Leu | 250 | Leu | Ala | Ser | Ser | Arg | Tyr | 255 |
| Ser | Glu | Gln | Glu | 260 | Ser | Phe | Thr | Val | Val | 265 | Phe | Gln | Pro | Phe | Phe | Tyr | 270 |
| Glu | Thr | Thr | Pro | 275 | Ser | Leu | His | Ser | Glu | 280 | Asp | Pro | Arg | Leu | Gln | Asp | 285 |
| Ser | Thr | Thr | Leu | 290 | Ala | Trp | His | Leu | Trp | 295 | Asn | Arg | Met | Met | Glu | Pro | 300 |
| Ala | Gly | Glu | Lys | 305 | Asp | Glu | Pro | Leu | Ser | 310 | Val | Lys | His | Gly | Arg | Pro | 315 |
| Met | Lys | Cys | Pro | 320 | Ser | Gln | Glu | Ser | Pro | 325 | Tyr | Leu | Phe | Ser | Tyr | Arg | 330 |
| Asn | Ser | Asn | Tyr | 335 | Leu | Thr | Arg | Leu | Gln | 340 | Lys | Pro | Gln | Asp | Lys | Leu | 345 |
| Glu | Val | Arg | Glu | 350 | Gly | Ala | Glu | Ile | Arg | 355 | Cys | Pro | Asp | Lys | Asp | Pro | 360 |
| Ser | Asp | Thr | Val | 365 | Pro | Thr | Ser | Val | His | 370 | Arg | Leu | Lys | Pro | Ala | Asp | 375 |
| Ile | Asn | Val | Ile | 380 | Gly | Ala | Leu | Gly | Asp | 385 | Ser | Leu | Thr | Ala | Gly | Asn | 390 |
| Gly | Ala | Gly | Ser | 395 | Thr | Pro | Gly | Asn | Val | 400 | Leu | Asp | Val | Leu | Thr | Gln | 405 |
| Tyr | Arg | Gly | Leu | 410 | Ser | Trp | Ser | Val | Gly | 415 | Gly | Asp | Glu | Asn | Ile | Gly | 420 |
| Thr | Val | Thr | Thr | 425 | Leu | Ala | Asn | Ile | Leu | 430 | Arg | Glu | Phe | Asn | Pro | Ser | 435 |
| Leu | Lys | Gly | Phe | 440 | Ser | Val | Gly | Thr | Gly | 445 | Lys | Glu | Thr | Ser | Pro | Asn | 450 |
| Ala | Phe | Leu | Asn | 455 | Gln | Ala | Val | Ala | Gly | 460 | Gly | Arg | Ala | Glu | Asp | Leu | 465 |
| Pro | Val | Gln | Ala | 470 | Arg | Arg | Leu | Val | Asp | 475 | Leu | Met | Lys | Asn | Asp | Thr | 480 |
| Arg | Ile | His | Phe | 485 | Gln | Glu | Asp | Trp | Lys | 490 | Ile | Ile | Thr | Leu | Phe | Ile | 495 |
| Gly | Gly | Asn | Asp | 500 | Leu | Cys | Asp | Phe | Cys | 505 | Asn | Asp | Leu | Val | His | Tyr | 510 |
| Ser | Pro | Gln | Asn | 515 | Phe | Thr | Asp | Asn | Ile | 520 | Gly | Lys | Ala | Leu | Asp | Ile | 525 |
| Leu | His | Ala | Glu | 530 | Val | Pro | Arg | Ala | Phe | 535 | Val | Asn | Leu | Val | Thr | Val | 540 |
| Leu | Glu | Ile | Val | 545 | Asn | Leu | Arg | Glu | Leu | 550 | Tyr | Gln | Glu | Lys | Lys | Val | 555 |
| Tyr | Cys | Pro | Arg | 560 | Met | Ile | Leu | Arg | Ser | 565 | Leu | Cys | Pro | Cys | Val | Leu | 570 |
|     |     |     |     | 575 |     |     |     |     |     | 580 |     |     |     |     |     |     | 585 |



|     |     |     |     |      |     |     |     |     |      |     |     |     |     |      |
|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-----|-----|-----|-----|------|
| Lys | Phe | Asp | Asp | Asn  | Ser | Thr | Glu | Leu | Ala  | Thr | Leu | Ile | Glu | Phe  |
|     |     |     |     | 590  |     |     |     |     | 595  |     |     |     |     | 600  |
| Asn | Lys | Lys | Phe | Gln  | Glu | Lys | Thr | His | Gln  | Leu | Ile | Glu | Ser | Gly  |
|     |     |     |     | 605  |     |     |     |     | 610  |     |     |     |     | 615  |
| Arg | Tyr | Asp | Thr | Arg  | Glu | Asp | Phe | Thr | Val  | Val | Val | Gln | Pro | Phe  |
|     |     |     |     | 620  |     |     |     |     | 625  |     |     |     |     | 630  |
| Phe | Glu | Asn | Val | Asp  | Met | Pro | Lys | Thr | Ser  | Glu | Gly | Leu | Pro | Asp  |
|     |     |     |     | 635  |     |     |     |     | 640  |     |     |     |     | 645  |
| Asn | Ser | Phe | Phe | Ala  | Pro | Asp | Cys | Phe | His  | Phe | Ser | Ser | Lys | Ser  |
|     |     |     |     | 650  |     |     |     |     | 655  |     |     |     |     | 660  |
| His | Ser | Arg | Ala | Ala  | Ser | Ala | Leu | Trp | Asn  | Asn | Met | Leu | Glu | Pro  |
|     |     |     |     | 665  |     |     |     |     | 670  |     |     |     |     | 675  |
| Val | Gly | Gln | Lys | Thr  | Thr | Arg | His | Lys | Phe  | Glu | Asn | Lys | Ile | Asn  |
|     |     |     |     | 680  |     |     |     |     | 685  |     |     |     |     | 690  |
| Ile | Thr | Cys | Pro | Asn  | Gln | Val | Gln | Pro | Phe  | Leu | Arg | Thr | Tyr | Lys  |
|     |     |     |     | 695  |     |     |     |     | 700  |     |     |     |     | 705  |
| Asn | Ser | Met | Gln | Gly  | His | Gly | Thr | Trp | Leu  | Pro | Cys | Arg | Asp | Arg  |
|     |     |     |     | 710  |     |     |     |     | 715  |     |     |     |     | 720  |
| Ala | Pro | Ser | Ala | Leu  | His | Pro | Thr | Ser | Val  | His | Ala | Leu | Arg | Pro  |
|     |     |     |     | 725  |     |     |     |     | 730  |     |     |     |     | 735  |
| Ala | Asp | Ile | Gln | Val  | Val | Ala | Ala | Leu | Gly  | Asp | Ser | Leu | Thr | Ala  |
|     |     |     |     | 740  |     |     |     |     | 745  |     |     |     |     | 750  |
| Gly | Asn | Gly | Ile | Gly  | Ser | Lys | Pro | Asp | Asp  | Leu | Pro | Asp | Val | Thr  |
|     |     |     |     | 755  |     |     |     |     | 760  |     |     |     |     | 765  |
| Thr | Gln | Tyr | Arg | Gly  | Leu | Ser | Tyr | Ser | Ala  | Gly | Gly | Asp | Gly | Ser  |
|     |     |     |     | 770  |     |     |     |     | 775  |     |     |     |     | 780  |
| Leu | Glu | Asn | Val | Thr  | Thr | Leu | Pro | Asn | Ile  | Leu | Arg | Glu | Phe | Asn  |
|     |     |     |     | 785  |     |     |     |     | 790  |     |     |     |     | 795  |
| Arg | Asn | Leu | Thr | Gly  | Tyr | Ala | Val | Gly | Thr  | Gly | Asp | Ala | Asn | Asp  |
|     |     |     |     | 800  |     |     |     |     | 805  |     |     |     |     | 810  |
| Thr | Asn | Ala | Phe | Leu  | Asn | Gln | Ala | Val | Pro  | Gly | Ala | Lys | Ala | Glu  |
|     |     |     |     | 815  |     |     |     |     | 820  |     |     |     |     | 825  |
| Asp | Leu | Met | Ser | Gln  | Val | Gln | Thr | Leu | Met  | Gln | Lys | Met | Lys | Asp  |
|     |     |     |     | 830  |     |     |     |     | 835  |     |     |     |     | 840  |
| Asp | His | Arg | Val | Asn  | Phe | His | Glu | Asp | Trp  | Lys | Val | Ile | Thr | Val  |
|     |     |     |     | 845  |     |     |     |     | 850  |     |     |     |     | 855  |
| Leu | Ile | Gly | Gly | Ser  | Asp | Leu | Cys | Asp | Tyr  | Cys | Thr | Asp | Ser | Asn  |
|     |     |     |     | 860  |     |     |     |     | 865  |     |     |     |     | 870  |
| Leu | Tyr | Ser | Ala | Ala  | Asn | Phe | Val | Asp | His  | Leu | Arg | Asn | Ala | Leu  |
|     |     |     |     | 875  |     |     |     |     | 880  |     |     |     |     | 885  |
| Asp | Val | Leu | His | Arg  | Glu | Val | Pro | Arg | Val  | Leu | Val | Asn | Leu | Val  |
|     |     |     |     | 890  |     |     |     |     | 895  |     |     |     |     | 900  |
| Asp | Phe | Leu | Asn | Pro  | Thr | Ile | Met | Arg | Gln  | Val | Phe | Leu | Gly | Asn  |
|     |     |     |     | 905  |     |     |     |     | 910  |     |     |     |     | 915  |
| Pro | Asp | Lys | Cys | Pro  | Val | Gln | Gln | Ala | Ser  | Val | Leu | Cys | Asn | Cys  |
|     |     |     |     | 920  |     |     |     |     | 925  |     |     |     |     | 930  |
| Val | Leu | Thr | Leu | Arg  | Glu | Asn | Ser | Gln | Glu  | Leu | Ala | Arg | Leu | Glu  |
|     |     |     |     | 935  |     |     |     |     | 940  |     |     |     |     | 945  |
| Ala | Phe | Ser | Arg | Ala  | Tyr | Arg | Ser | Ser | Met  | Arg | Glu | Leu | Val | Gly  |
|     |     |     |     | 950  |     |     |     |     | 955  |     |     |     |     | 960  |
| Ser | Gly | Arg | Tyr | Asp  | Thr | Gln | Glu | Asp | Phe  | Ser | Val | Val | Leu | Gln  |
|     |     |     |     | 965  |     |     |     |     | 970  |     |     |     |     | 975  |
| Pro | Phe | Phe | Gln | Asn  | Ile | Gln | Leu | Pro | Val  | Leu | Ala | Asp | Gly | Leu  |
|     |     |     |     | 980  |     |     |     |     | 985  |     |     |     |     | 990  |
| Pro | Asp | Thr | Ser | Phe  | Phe | Ala | Pro | Asp | Cys  | Ile | His | Pro | Asn | Gln  |
|     |     |     |     | 995  |     |     |     |     | 1000 |     |     |     |     | 1005 |
| Lys | Phe | His | Ser | Gln  | Leu | Ala | Arg | Ala | Leu  | Trp | Thr | Asn | Met | Leu  |
|     |     |     |     | 1010 |     |     |     |     | 1015 |     |     |     |     | 1020 |
| Glu | Pro | Leu | Gly | Ser  | Lys | Thr | Glu | Thr | Leu  | Asp | Leu | Arg | Ala | Glu  |
|     |     |     |     | 1025 |     |     |     |     | 1030 |     |     |     |     | 1035 |
| Met | Pro | Ile | Thr | Cys  | Pro | Thr | Gln | Asn | Glu  | Pro | Phe | Leu | Arg | Thr  |
|     |     |     |     | 1040 |     |     |     |     | 1045 |     |     |     |     | 1050 |
| Pro | Arg | Asn | Ser | Asn  | Tyr | Thr | Tyr | Pro | Ile  | Lys | Pro | Ala | Ile | Glu  |



|   |                     |      |
|---|---------------------|------|
| 1055                                    | 1060                | 1065 |
| Asn Trp Gly Ser Asp Phe Leu Cys Thr Glu | Trp Lys Ala Ser Asn |      |
| 1070                                    | 1075                | 1080 |
| Ser Val Pro Thr Ser Val His Gln Leu Arg | Pro Ala Asp Ile Lys |      |
| 1085                                    | 1090                | 1095 |
| Val Val Ala Ala Leu Gly Asp Ser Leu Thr | Thr Ala Val Gly Ala |      |
| 1100                                    | 1105                | 1110 |
| Arg Pro Asn Asn Ser Ser Asp Leu Pro Thr | Ser Trp Arg Gly Leu |      |
| 1115                                    | 1120                | 1125 |
| Ser Trp Ser Ile Gly Gly Asp Gly Asn Leu | Glu Thr His Thr Thr |      |
| 1130                                    | 1135                | 1140 |
| Leu Pro Asn Ile Leu Lys Lys Phe Asn Pro | Tyr Leu Leu Gly Phe |      |
| 1145                                    | 1150                | 1155 |
| Ser Thr Ser Thr Trp Glu Gly Thr Ala Gly | Leu Asn Val Ala Ala |      |
| 1160                                    | 1165                | 1170 |
| Glu Gly Ala Arg Ala Arg Asp Met Pro Ala | Gln Ala Trp Asp Leu |      |
| 1175                                    | 1180                | 1185 |
| Val Glu Arg Met Lys Asn Ser Pro Asp Ile | Asn Leu Glu Lys Asp |      |
| 1190                                    | 1195                | 1200 |
| Trp Lys Leu Val Thr Leu Phe Ile Gly Val | Asn Asp Leu Cys His |      |
| 1205                                    | 1210                | 1215 |
| Tyr Cys Glu Asn Pro Glu Ala His Leu Ala | Thr Glu Tyr Val Gln |      |
| 1220                                    | 1225                | 1230 |
| His Ile Gln Gln Ala Leu Asp Ile Leu Ser | Glu Glu Leu Pro Arg |      |
| 1235                                    | 1240                | 1245 |
| Ala Phe Val Asn Val Val Glu Val Met Glu | Leu Ala Ser Leu Tyr |      |
| 1250                                    | 1255                | 1260 |
| Gln Gly Gln Gly Gly Lys Cys Ala Met Leu | Ala Ala Gln Asn Asn |      |
| 1265                                    | 1270                | 1275 |
| Cys Thr Cys Leu Arg His Ser Gln Ser Ser | Leu Glu Lys Gln Glu |      |
| 1280                                    | 1285                | 1290 |
| Leu Lys Lys Val Asn Trp Asn Leu Gln His | Gly Ile Ser Ser Phe |      |
| 1295                                    | 1300                | 1305 |
| Ser Tyr Trp His Gln Tyr Thr Gln Arg Glu | Asp Phe Ala Val Val |      |
| 1310                                    | 1315                | 1320 |
| Val Gln Pro Phe Phe Gln Asn Thr Leu Thr | Pro Leu Asn Glu Arg |      |
| 1325                                    | 1330                | 1335 |
| Gly Asp Thr Asp Leu Thr Phe Phe Ser Glu | Asp Cys Phe His Phe |      |
| 1340                                    | 1345                | 1350 |
| Ser Asp Arg Gly His Ala Glu Met Ala Ile | Ala Leu Trp Asn Asn |      |
| 1355                                    | 1360                | 1365 |
| Met Glu Ser Pro Tyr Leu Tyr Thr Leu Arg | Asn Ser Arg Leu Leu |      |
| 1370                                    | 1375                | 1380 |
| Pro Asp Gln Ala Glu Glu Ala Pro Glu Val | Leu Tyr Trp Ala Val |      |
| 1385                                    | 1390                | 1395 |
| Pro Val Ala Ala Gly Val Gly Leu Val Val | Gly Ile Ile Gly Thr |      |
| 1400                                    | 1405                | 1410 |
| Val Val Trp Arg Cys Arg Arg Gly Gly Arg | Arg Glu Asp Pro Pro |      |
| 1415                                    | 1420                | 1425 |
| Met Ser Leu Arg Thr Val Ala Leu         |                     |      |
| 1430                                    |                     |      |

&lt;210&gt; 11

&lt;211&gt; 1004

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7513164CD1

&lt;400&gt; 11

Met Gly Leu Arg Pro Gly Ile Phe Leu Leu Glu Leu Leu Leu

|                     |                     |                     |    |
|---------------------|---------------------|---------------------|----|
| 1                   | 5                   | 10                  | 15 |
| Leu Gly Gln Gly Thr | Pro Gln Ile His Thr | Ser Pro Arg Lys Ser |    |
| 20                  | 25                  | 30                  |    |
| Thr Leu Glu Gly Gln | Leu Trp Pro Glu Thr | Leu Lys Asn Ser Pro |    |
| 35                  | 40                  | 45                  |    |
| Phe Pro Cys Asn Pro | Asn Lys Leu Gly Val | Asn Met Pro Ser Lys |    |
| 50                  | 55                  | 60                  |    |
| Ser Val His Ser Leu | Lys Pro Ser Asp Ile | Lys Phe Val Ala Ala |    |
| 65                  | 70                  | 75                  |    |
| Ile Gly Asn Leu Glu | Ile Pro Pro Asp Pro | Gly Thr Gly Asp Leu |    |
| 80                  | 85                  | 90                  |    |
| Glu Lys Gln Asp Trp | Thr Glu Arg Pro Gln | Gln Val Cys Met Gly |    |
| 95                  | 100                 | 105                 |    |
| Val Met Thr Val Leu | Ser Asp Ile Ile Arg | Tyr Phe Ser Pro Ser |    |
| 110                 | 115                 | 120                 |    |
| Val Pro Met Pro Val | Cys His Thr Gly Lys | Arg Val Ile Pro His |    |
| 125                 | 130                 | 135                 |    |
| Asp Gly Ala Glu Asp | Leu Trp Ile Gln Ala | Gln Glu Leu Val Arg |    |
| 140                 | 145                 | 150                 |    |
| Asn Met Lys Glu Asn | Leu Gln Leu Asp Phe | Gln Phe Asp Trp Lys |    |
| 155                 | 160                 | 165                 |    |
| Leu Ile Asn Val Phe | Phe Ser Asn Ala Ser | Gln Cys Tyr Leu Cys |    |
| 170                 | 175                 | 180                 |    |
| Pro Ser Ala Gln Gln | Asn Gly Leu Ala Ala | Gly Gly Val Asp Glu |    |
| 185                 | 190                 | 195                 |    |
| Leu Met Gly Val Leu | Asp Tyr Leu Gln Gln | Glu Val Pro Arg Ala |    |
| 200                 | 205                 | 210                 |    |
| Phe Val Asn Leu Val | Asp Leu Ser Glu Val | Ala Glu Val Ser Arg |    |
| 215                 | 220                 | 225                 |    |
| Gln Tyr His Gly Thr | Trp Leu Ser Pro Ala | Pro Glu Pro Cys Asn |    |
| 230                 | 235                 | 240                 |    |
| Cys Ser Glu Glu Thr | Thr Arg Leu Ala Lys | Val Val Met Gln Trp |    |
| 245                 | 250                 | 255                 |    |
| Ser Tyr Gln Glu Ala | Trp Asn Ser Leu Leu | Ala Ser Ser Arg Tyr |    |
| 260                 | 265                 | 270                 |    |
| Ser Glu Gln Glu Ser | Phe Thr Val Val Phe | Gln Pro Phe Phe Tyr |    |
| 275                 | 280                 | 285                 |    |
| Glu Thr Thr Pro Ser | Leu His Ser Glu Asp | Pro Arg Leu Gln Asp |    |
| 290                 | 295                 | 300                 |    |
| Ser Thr Thr Leu Ala | Trp His Leu Trp Asn | Arg Met Met Glu Pro |    |
| 305                 | 310                 | 315                 |    |
| Ala Gly Glu Lys Asp | Glu Pro Leu Ser Val | Lys His Gly Arg Pro |    |
| 320                 | 325                 | 330                 |    |
| Met Lys Cys Pro Ser | Gln Glu Ser Pro Tyr | Leu Phe Ser Tyr Arg |    |
| 335                 | 340                 | 345                 |    |
| Asn Ser Asn Tyr Leu | Thr Arg Leu Gln Lys | Pro Gln Asp Lys Leu |    |
| 350                 | 355                 | 360                 |    |
| Glu Val Arg Glu Gly | Ala Glu Ile Arg Cys | Pro Asp Lys Asp Pro |    |
| 365                 | 370                 | 375                 |    |
| Ser Asp Thr Val Pro | Thr Ser Val His Arg | Leu Lys Pro Ala Asp |    |
| 380                 | 385                 | 390                 |    |
| Ile Asn Val Ile Gly | Ala Leu Gly Asp Ser | Leu Thr Ala Gly Asn |    |
| 395                 | 400                 | 405                 |    |
| Gly Ala Gly Ser Thr | Pro Gly Asn Val Leu | Asp Val Leu Thr Gln |    |
| 410                 | 415                 | 420                 |    |
| Tyr Arg Gly Leu Ser | Trp Ser Val Gly Gly | Asp Glu Asn Ile Gly |    |
| 425                 | 430                 | 435                 |    |
| Thr Val Thr Thr Leu | Ala Asn Ile Leu Arg | Glu Phe Asn Pro Ser |    |
| 440                 | 445                 | 450                 |    |
| Leu Lys Gly Phe Ser | Val Gly Thr Gly Lys | Glu Thr Ser Pro Asn |    |
| 455                 | 460                 | 465                 |    |
| Ala Phe Leu Asn Gln | Ala Val Ala Gly Gly | Arg Ala Glu Asp Leu |    |
| 470                 | 475                 | 480                 |    |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Val | Gln | Ala | Arg | Arg | Leu | Val | Asp | Leu | Met | Lys | Asn | Asp | Thr |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |
| Arg | Ile | His | Phe | Gln | Glu | Asp | Trp | Lys | Ile | Ile | Thr | Leu | Phe | Ile |
|     |     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |
| Gly | Gly | Asn | Asp | Leu | Cys | Asp | Phe | Cys | Asn | Asp | Leu | Val | His | Tyr |
|     |     |     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |
| Ser | Pro | Gln | Asn | Phe | Thr | Asp | Asn | Ile | Gly | Lys | Ala | Leu | Asp | Ile |
|     |     |     |     | 530 |     |     |     |     | 535 |     |     |     |     | 540 |
| Leu | His | Ala | Glu | Val | Pro | Arg | Ala | Phe | Val | Asn | Leu | Val | Thr | Val |
|     |     |     |     | 545 |     |     |     |     | 550 |     |     |     |     | 555 |
| Leu | Glu | Ile | Val | Asn | Leu | Arg | Glu | Leu | Tyr | Gln | Glu | Lys | Lys | Val |
|     |     |     |     | 560 |     |     |     |     | 565 |     |     |     |     | 570 |
| Tyr | Cys | Pro | Arg | Met | Ile | Leu | Arg | Ser | Leu | Cys | Pro | Cys | Val | Leu |
|     |     |     |     | 575 |     |     |     |     | 580 |     |     |     |     | 585 |
| Lys | Phe | Asp | Asp | Asn | Ser | Thr | Glu | Leu | Ala | Thr | Leu | Ile | Glu | Phe |
|     |     |     |     | 590 |     |     |     |     | 595 |     |     |     |     | 600 |
| Asn | Lys | Lys | Phe | Gln | Glu | Lys | Thr | His | Gln | Leu | Ile | Glu | Ser | Gly |
|     |     |     |     | 605 |     |     |     |     | 610 |     |     |     |     | 615 |
| Arg | Tyr | Asp | Thr | Arg | Glu | Asp | Phe | Thr | Val | Val | Val | Gln | Pro | Phe |
|     |     |     |     | 620 |     |     |     |     | 625 |     |     |     |     | 630 |
| Phe | Glu | Asn | Val | Asp | Met | Pro | Lys | Thr | Ser | Glu | Gly | Leu | Pro | Asp |
|     |     |     |     | 635 |     |     |     |     | 640 |     |     |     |     | 645 |
| Asn | Ser | Phe | Phe | Ala | Pro | Asp | Cys | Phe | His | Phe | Ser | Ser | Lys | Ser |
|     |     |     |     | 650 |     |     |     |     | 655 |     |     |     |     | 660 |
| His | Ser | Arg | Ala | Ala | Ser | Ala | Leu | Trp | Asn | Asn | Met | Leu | Glu | Pro |
|     |     |     |     | 665 |     |     |     |     | 670 |     |     |     |     | 675 |
| Val | Gly | Gln | Lys | Thr | Thr | Arg | His | Lys | Phe | Glu | Asn | Lys | Ile | Asn |
|     |     |     |     | 680 |     |     |     |     | 685 |     |     |     |     | 690 |
| Ile | Thr | Cys | Pro | Asn | Gln | Val | Gln | Pro | Phe | Leu | Arg | Thr | Tyr | Lys |
|     |     |     |     | 695 |     |     |     |     | 700 |     |     |     |     | 705 |
| Asn | Ser | Met | Gln | Gly | His | Gly | Thr | Trp | Leu | Pro | Cys | Arg | Asp | Arg |
|     |     |     |     | 710 |     |     |     |     | 715 |     |     |     |     | 720 |
| Ala | Pro | Ser | Ala | Leu | His | Pro | Thr | Ser | Val | His | Ala | Leu | Arg | Pro |
|     |     |     |     | 725 |     |     |     |     | 730 |     |     |     |     | 735 |
| Ala | Asp | Ile | Gln | Val | Val | Ala | Ala | Leu | Gly | Asp | Ser | Leu | Thr | Ala |
|     |     |     |     | 740 |     |     |     |     | 745 |     |     |     |     | 750 |
| Gly | Asn | Gly | Ile | Gly | Ser | Lys | Pro | Asp | Asp | Leu | Pro | Asp | Val | Thr |
|     |     |     |     | 755 |     |     |     |     | 760 |     |     |     |     | 765 |
| Thr | Gln | Tyr | Arg | Gly | Leu | Ser | Tyr | Ser | Ala | Gly | Gly | Asp | Gly | Ser |
|     |     |     |     | 770 |     |     |     |     | 775 |     |     |     |     | 780 |
| Leu | Glu | Asn | Val | Thr | Thr | Leu | Pro | Asn | Ile | Leu | Arg | Glu | Phe | Asn |
|     |     |     |     | 785 |     |     |     |     | 790 |     |     |     |     | 795 |
| Arg | Asn | Leu | Thr | Gly | Tyr | Ala | Val | Gly | Thr | Gly | Asp | Ala | Asn | Asp |
|     |     |     |     | 800 |     |     |     |     | 805 |     |     |     |     | 810 |
| Thr | Asn | Ala | Phe | Leu | Asn | Gln | Ala | Val | Pro | Gly | Ala | Lys | Ala | Glu |
|     |     |     |     | 815 |     |     |     |     | 820 |     |     |     |     | 825 |
| Asp | Leu | Met | Ser | Gln | Val | Gln | Thr | Leu | Met | Gln | Lys | Met | Lys | Asp |
|     |     |     |     | 830 |     |     |     |     | 835 |     |     |     |     | 840 |
| Asp | His | Arg | Val | Asn | Phe | His | Glu | Asp | Trp | Lys | Val | Ile | Thr | Val |
|     |     |     |     | 845 |     |     |     |     | 850 |     |     |     |     | 855 |
| Leu | Ile | Gly | Gly | Ser | Asp | Leu | Cys | Asp | Tyr | Cys | Thr | Asp | Ser | Asn |
|     |     |     |     | 860 |     |     |     |     | 865 |     |     |     |     | 870 |
| Leu | Tyr | Ser | Ala | Ala | Asn | Phe | Val | His | His | Leu | Arg | Asn | Ala | Leu |
|     |     |     |     | 875 |     |     |     |     | 880 |     |     |     |     | 885 |
| Asp | Val | Leu | His | Arg | Glu | Val | Pro | Arg | Val | Leu | Val | Asn | Leu | Val |
|     |     |     |     | 890 |     |     |     |     | 895 |     |     |     |     | 900 |
| Asp | Phe | Leu | Asn | Pro | Thr | Ile | Met | Arg | Gln | Val | Phe | Leu | Gly | Asn |
|     |     |     |     | 905 |     |     |     |     | 910 |     |     |     |     | 915 |
| Pro | Asp | Lys | Cys | Pro | Val | Gln | Gln | Ala | Arg | Ala | Ala | Cys | Ala | Ser |
|     |     |     |     | 920 |     |     |     |     | 925 |     |     |     |     | 930 |
| Trp | Trp | Gly | Gln | Ala | Ala | Met | Thr | Arg | Arg | Arg | Thr | Ser | Leu | Trp |
|     |     |     |     | 935 |     |     |     |     | 940 |     |     |     |     | 945 |
| Cys | Cys | Ser | Pro | Ser | Ser | Arg | Thr | Ser | Ser | Ser | Leu | Ser | Trp | Arg |

|     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|
|     |     |     |     | 950 |     |     |     |     | 955  |     |     |     |     | 960 |
| Met | Gly | Ser | Gln | Ile | Arg | Pro | Ser | Leu | Pro  | Gln | Thr | Ala | Ser | Thr |
|     |     |     |     | 965 |     |     |     |     | 970  |     |     |     |     | 975 |
| Gln | Ile | Arg | Asn | Ser | Thr | Pro | Ser | Trp | Pro  | Glu | Pro | Phe | Gly | Pro |
|     |     |     |     | 980 |     |     |     |     | 985  |     |     |     |     | 990 |
| Ile | Cys | Leu | Asn | His | Leu | Glu | Ala | Lys | Gln  | Arg | Pro | Trp | Thr |     |
|     |     |     |     | 995 |     |     |     |     | 1000 |     |     |     |     |     |

&lt;210&gt; 12

&lt;211&gt; 380

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7513496CD1

&lt;400&gt; 12

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Gly | Ala | Ala | Leu | Leu | Arg | Val | Ser | Val | Leu | Cys | Ile | Trp |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Val | Gln | Gln | Asn | Val | Pro | Ser | Gly | Thr | Asp | Thr | Gly | Asp | Pro | Gln |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Ser | Lys | Pro | Leu | Gly | Asp | Trp | Ala | Ala | Gly | Thr | Met | Asp | Pro | Glu |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Ser | Ser | Ile | Phe | Ile | Glu | Asp | Ala | Ile | Lys | Tyr | Phe | Lys | Glu | Lys |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Val | Ser | Thr | Gln | Asn | Leu | Leu | Leu | Leu | Leu | Thr | Asp | Asn | Glu | Ala |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Trp | Asn | Gly | Phe | Val | Ala | Ala | Ala | Glu | Leu | Pro | Arg | Asn | Glu | Ala |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Asp | Glu | Leu | Arg | Lys | Ala | Leu | Asp | Asn | Leu | Ala | Arg | Gln | Met | Ile |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Met | Lys | Asp | Lys | Asn | Trp | His | Asp | Lys | Gly | Gln | Gln | Tyr | Arg | Asn |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Trp | Phe | Leu | Lys | Glu | Phe | Pro | Arg | Leu | Lys | Ser | Lys | Leu | Glu | Asp |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Asn | Ile | Arg | Arg | Leu | Arg | Ala | Leu | Ala | Asp | Gly | Val | Gln | Lys | Val |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| His | Lys | Gly | Thr | Thr | Ile | Ala | Asn | Val | Val | Ser | Gly | Ser | Leu | Ser |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Ile | Ser | Ser | Gly | Ile | Leu | Thr | Leu | Val | Gly | Met | Gly | Leu | Ala | Pro |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Phe | Thr | Glu | Gly | Gly | Ser | Leu | Val | Leu | Leu | Glu | Pro | Gly | Met | Glu |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Leu | Gly | Ile | Thr | Ala | Ala | Leu | Thr | Gly | Ile | Thr | Ser | Ser | Thr | Ile |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Asp | Tyr | Gly | Lys | Lys | Trp | Trp | Thr | Gln | Ala | Gln | Ala | His | Asp | Leu |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Val | Ile | Lys | Ser | Leu | Asp | Lys | Leu | Lys | Glu | Val | Lys | Glu | Phe | Leu |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Gly | Glu | Asn | Ile | Ser | Asn | Phe | Leu | Ser | Leu | Ala | Gly | Asn | Thr | Tyr |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Gln | Leu | Thr | Arg | Gly | Ile | Gly | Lys | Asp | Ile | Arg | Ala | Leu | Arg | Arg |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Ala | Arg | Ala | Asn | Leu | Gln | Ser | Val | Pro | His | Ala | Ser | Ala | Ser | Arg |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Pro | Arg | Val | Thr | Glu | Pro | Ile | Ser | Ala | Glu | Ser | Gly | Glu | Gln | Val |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Glu | Arg | Val | Asn | Glu | Pro | Ser | Ile | Leu | Glu | Met | Ser | Arg | Gly | Val |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Lys | Leu | Thr | Asp | Val | Ala | Pro | Val | Ser | Phe | Phe | Leu | Val | Leu | Asp |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Val | Val | Tyr | Leu | Val | Tyr | Glu | Ser | Lys | His | Leu | His | Glu | Gly | Ala |

|                 |                     |                     |     |  |     |
|-----------------|---------------------|---------------------|-----|--|-----|
|                 | 335                 |                     | 340 |  | 345 |
| Lys Ser Glu Thr | Ala Glu Glu Leu Lys | Lys Val Ala Gln Glu | Leu |  |     |
|                 | 350                 |                     | 355 |  | 360 |
| Glu Glu Lys Leu | Asn Ile Leu Asn Asn | Asn Tyr Lys Ile Leu | Gln |  |     |
|                 | 365                 |                     | 370 |  | 375 |
| Ala Asp Gln Glu | Leu                 |                     |     |  |     |
|                 | 380                 |                     |     |  |     |

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 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7514724CD1

|                     |   |
|---------------------|---|
| <400> 13            |   |
| Met Arg Ile Trp Trp | Leu Leu Leu Ala Ile Glu Ile Cys Thr Gly |
| 1 5                 | 10 15                                   |
| Asn Ile Asn Ser Gln | Asp Thr Cys Arg Gln Gly His Pro Gly Ile |
| 20                  | 25 30                                   |
| Pro Gly Asn Pro Gly | His Asn Val Leu Pro Gly Arg Asp Gly Arg |
| 35                  | 40 45                                   |
| Asp Gly Ala Lys Gly | Asp Lys Gly Asp Ala Gly Glu Pro Gly Cys |
| 50                  | 55 60                                   |
| Pro Gly Ser Pro Gly | Lys Asp Gly Thr Ser Gly Glu Lys Gly Glu |
| 65                  | 70 75                                   |
| Arg Gly Ala Asp Gly | Lys Val Glu Ala Lys Gly Ile Lys Gly Met |
| 80                  | 85 90                                   |
| Phe Arg Cys Leu Trp | Ser Lys Thr Glu                         |
| 95                  |   |

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 <211> 304  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7514797CD1

|                     |   |
|---------------------|---|
| <400> 14            |   |
| Met Ala Ala Gly Ile | Val Ala Ser Arg Arg Leu Arg Asp Leu Leu |
| 1 5                 | 10 15                                   |
| Thr Arg Arg Leu Thr | Gly Ser Asn Tyr Pro Gly Leu Ser Ile Ser |
| 20                  | 25 30                                   |
| Leu Arg Leu Thr Gly | Ser Ser Ala Gln Glu Ala Ala Ser Gly Val |
| 35                  | 40 45                                   |
| Ala Leu Gly Glu Ala | Pro Asp His Ser Tyr Glu Ser Leu Arg Val |
| 50                  | 55 60                                   |
| Thr Ser Ala Gln Lys | His Val Leu His Val Gln Leu Asn Arg Pro |
| 65                  | 70 75                                   |
| Asn Lys Arg Asn Ala | Met Asn Lys Val Phe Trp Arg Glu Met Val |
| 80                  | 85 90                                   |
| Glu Cys Phe Asn Lys | Ile Ser Arg Asp Ala Asp Cys Arg Ala Val |
| 95                  | 100 105                                 |
| Val Ile Ser Gly Ala | Gly Lys Met Phe Thr Ala Gly Ile Asp Leu |
| 110                 | 115 120                                 |
| Met Asp Met Ala Ser | Asp Ile Leu Gln Pro Lys Gly Asp Asp Val |
| 125                 | 130 135                                 |
| Ala Arg Ile Ser Trp | Tyr Leu Arg Asp Ile Ile Thr Arg Tyr Gln |
| 140                 | 145 150                                 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Glu | Thr | Phe | Asn | Val | Ile | Glu | Arg | Cys | Pro | Lys | Pro | Val | Ile | Ala |  |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |  |
| Ala | Val | His | Gly | Gly | Cys | Ile | Gly | Gly | Gly | Val | Asp | Leu | Val | Thr |  |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |  |
| Ala | Cys | Asp | Ile | Arg | Tyr | Cys | Ala | Gln | Asp | Ala | Phe | Phe | Gln | Val |  |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |  |
| Lys | Glu | Val | Asp | Val | Gly | Leu | Ala | Ala | Asp | Val | Gly | Thr | Leu | Gln |  |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |  |
| Arg | Leu | Pro | Lys | Val | Ile | Gly | Asn | Gln | Ser | Arg | Val | Phe | Pro | Asp |  |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |  |
| Lys | Glu | Val | Met | Leu | Asp | Ala | Ala | Leu | Ala | Leu | Ala | Ala | Glu | Ile |  |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |
| Ser | Ser | Lys | Ser | Pro | Val | Ala | Val | Gln | Ser | Thr | Lys | Val | Asn | Leu |  |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |  |
| Leu | Tyr | Ser | Arg | Asp | His | Ser | Val | Ala | Glu | Ser | Leu | Asn | Tyr | Val |  |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |  |
| Ala | Ser | Trp | Asn | Met | Ser | Met | Leu | Gln | Thr | Gln | Asp | Leu | Val | Lys |  |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |  |
| Ser | Val | Gln | Ala | Thr | Thr | Glu | Asn | Lys | Glu | Leu | Lys | Thr | Val | Thr |  |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |  |

Phe Ser Lys Leu

<210> 15  
 <211> 180  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7512100CD1

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Met | Ala | Thr | Pro | Tyr | Val | Pro | Val | Pro | Met | Pro | Ile | Gly | Asn | Ser |  |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |  |
| Ala | Ser | Ser | Phe | Thr | Thr | Asn | Arg | Asn | Gln | Arg | Ser | Ser | Ser | Phe |  |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |  |
| Gly | Ser | Val | Ser | Thr | Ser | Ser | Asn | Ser | Ser | Lys | Gly | Gln | Leu | Glu |  |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |  |
| Asp | Ser | Asn | Met | Gly | Thr | Ala | Ser | Ser | Ile | Glu | Tyr | Ser | Thr | Arg |  |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |  |
| Pro | Arg | Asp | Thr | Glu | Glu | Gln | Asn | Pro | Glu | Thr | Val | Asn | Trp | Glu |  |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |  |
| Asp | Arg | Pro | Ser | Thr | Pro | Thr | Ile | Leu | Gly | Tyr | Glu | Val | Met | Glu |  |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |  |
| Glu | Arg | Ala | Lys | Phe | Thr | Val | Tyr | Lys | Ile | Leu | Val | Lys | Lys | Thr |  |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |  |
| Pro | Glu | Glu | Ser | Trp | Val | Val | Phe | Arg | Arg | Tyr | Thr | Asp | Phe | Ser |  |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |  |
| Arg | Leu | Asn | Asp | Lys | Leu | Lys | Glu | Met | Phe | Pro | Gly | Phe | Arg | Leu |  |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |  |
| Ala | Leu | Pro | Pro | Lys | Arg | Trp | Phe | Lys | Asp | Asn | Tyr | Asn | Ala | Asp |  |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |  |
| Phe | Leu | Glu | Asp | Arg | Gln | Leu | Gly | Leu | Gln | Ala | Phe | Leu | Gln | Asn |  |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |  |
| Leu | Val | Ala | His | Lys | Asp | Ile | Ala | Asn | Trp | His | Ser | Val | Lys | Leu |  |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |  |

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 <211> 209  
 <212> PRT  
 <213> Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7512101CD1

&lt;400&gt; 16

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Met | Ala | Thr | Pro | Tyr | Val | Pro | Val | Pro | Met | Pro | Ile | Gly | Asn | Ser | 1   | 5   | 10  | 15 |
| Ala | Ser | Ser | Phe | Thr | Thr | Asn | Arg | Asn | Gln | Arg | Ser | Ser | Ser | Phe | 20  | 25  | 30  |    |
| Gly | Ser | Val | Ser | Thr | Ser | Ser | Asn | Ser | Ser | Lys | Gly | Gln | Leu | Glu | 35  | 40  | 45  |    |
| Asp | Ser | Asn | Met | Gly | Asn | Phe | Lys | Gln | Thr | Ser | Val | Pro | Asp | Gln | 50  | 55  | 60  |    |
| Met | Asp | Asn | Thr | Ser | Ser | Val | Cys | Ser | Ser | Pro | Leu | Ile | Arg | Thr | 65  | 70  | 75  |    |
| Lys | Phe | Thr | Gly | Thr | Ala | Ser | Ser | Ile | Glu | Tyr | Ser | Thr | Arg | Pro | 80  | 85  | 90  |    |
| Arg | Asp | Thr | Glu | Glu | Gln | Asn | Pro | Glu | Thr | Val | Asn | Trp | Glu | Asp | 95  | 100 | 105 |    |
| Arg | Pro | Ser | Thr | Pro | Thr | Ile | Leu | Gly | Tyr | Glu | Val | Met | Glu | Glu | 110 | 115 | 120 |    |
| Arg | Ala | Lys | Phe | Thr | Val | Tyr | Lys | Ile | Leu | Val | Lys | Lys | Thr | Pro | 125 | 130 | 135 |    |
| Glu | Glu | Ser | Trp | Val | Val | Phe | Arg | Arg | Tyr | Thr | Asp | Phe | Ser | Arg | 140 | 145 | 150 |    |
| Leu | Asn | Asp | Lys | Leu | Lys | Glu | Met | Phe | Pro | Gly | Phe | Arg | Leu | Ala | 155 | 160 | 165 |    |
| Leu | Pro | Pro | Lys | Arg | Trp | Phe | Lys | Asp | Asn | Tyr | Asn | Ala | Asp | Phe | 170 | 175 | 180 |    |
| Leu | Glu | Asp | Arg | Gln | Leu | Gly | Leu | Gln | Ala | Phe | Leu | Gln | Asn | Leu | 185 | 190 | 195 |    |
| Val | Ala | His | Lys | Asp | Ile | Ala | Asn | Trp | His | Ser | Val | Lys | Leu |     | 200 | 205 |     |    |

&lt;210&gt; 17

&lt;211&gt; 419

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7516771CD1

&lt;400&gt; 17

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Met | Lys | Met | Arg | Phe | Leu | Gly | Leu | Val | Val | Cys | Leu | Val | Leu | Trp | 1   | 5   | 10  | 15 |
| Thr | Leu | His | Ser | Glu | Gly | Ser | Arg | Gly | Lys | Leu | Thr | Ala | Val | Asp | 20  | 25  | 30  |    |
| Pro | Glu | Thr | Asn | Met | Asn | Val | Ser | Glu | Ile | Ile | Ser | Tyr | Trp | Gly | 35  | 40  | 45  |    |
| Phe | Pro | Ser | Glu | Glu | Tyr | Leu | Val | Glu | Thr | Glu | Asp | Gly | Tyr | Ile | 50  | 55  | 60  |    |
| Leu | Cys | Leu | Asn | Arg | Ile | Pro | His | Gly | Arg | Lys | Asn | His | Ser | Asp | 65  | 70  | 75  |    |
| Lys | Gly | Glu | Gly | Ala | Val | Pro | Trp | Asn | Met | Lys | Lys | Val | Ser | Met | 80  | 85  | 90  |    |
| Ser | Leu | Asp | Met | Leu | Pro | Gly | Pro | Lys | Pro | Val | Val | Phe | Leu | Gln | 95  | 100 | 105 |    |
| His | Gly | Leu | Leu | Ala | Asp | Ser | Ser | Asn | Trp | Val | Thr | Asn | Leu | Ala | 110 | 115 | 120 |    |
| Asn | Ser | Ser | Leu | Gly | Phe | Ile | Leu | Ala | Asp | Ala | Gly | Phe | Asp | Val | 125 | 130 | 135 |    |
| Trp | Met | Gly | Asn | Ser | Arg | Gly | Asn | Thr | Trp | Ser | Arg | Lys | His | Lys |     |     |     |    |



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Ser | Val | 140 | Ser | Gln | Asp | Glu | Phe | 145 | Trp | Ala | Phe | Ser | Tyr | 150 | Asp |
|     |     |     |     | 155 | Tyr | Asp | Leu | Pro | Ala | 160 | Ser | Ile | Asn | Phe | Ile | 165 | Leu |
| Glu | Met | Ala | Lys | 170 | Gln | Glu | Gln | Val | Tyr | 175 | Tyr | Val | Gly | His | Ser | 180 | Gln |
| Asn | Lys | Thr | Gly | 185 | Gly | Phe | Ile | Ala | Phe | 190 | Ser | Gln | Ile | Pro | Glu | 195 | Leu |
| Gly | Thr | Thr | Ile | 200 | Lys | Met | Phe | Phe | Ala | 205 | Leu | Gly | Pro | Val | Ala | 210 | Ser |
| Ala | Lys | Arg | Ile | 215 | Thr | Ser | Pro | Met | Ala | 220 | Lys | Leu | Gly | Arg | Leu | 225 | Pro |
| Val | Ala | Phe | Cys | 230 | Lys | Asp | Leu | Phe | Gly | 235 | Asp | Lys | Glu | Phe | Leu | 240 | Pro |
| Asp | His | Leu | Ile | 245 | Leu | Lys | Trp | Leu | Gly | 250 | Thr | His | Val | Cys | Thr | 255 | His |
| Gln | Ser | Ala | Phe | 260 | Glu | Leu | Cys | Gly | Asn | 265 | Leu | Cys | Phe | Leu | Leu | 270 | Cys |
| Val | Ile | Leu | Lys | 275 | Arg | Asn | Leu | Asn | Met | 280 | Ser | Arg | Val | Asp | Val | 285 | Tyr |
| Gly | Phe | Asn | Glu | 290 | Pro | Ala | Gly | Thr | Ser | 295 | Val | Gln | Asn | Met | Leu | 300 | His |
| Thr | Thr | His | Ser | 305 | Val | Lys | Phe | Gln | Lys | 310 | Phe | Gln | Ala | Phe | Asp | 315 | Trp |
| Trp | Ser | Gln | Ala | 320 | Lys | Asn | Tyr | Phe | His | 325 | Tyr | Asn | Gln | Ser | Tyr | 330 | Pro |
| Gly | Ser | Ser | Ala | 335 | Val | Lys | Asp | Met | Leu | 340 | Val | Pro | Thr | Ala | Val | 345 | Trp |
| Pro | Thr | Tyr | Asn | 350 | Asp | Trp | Leu | Ala | Asp | 355 | Val | Tyr | Asp | Val | Asn | 360 | Ile |
| Ser | Gly | Gly | His | 365 | Ile | Thr | Asn | Leu | Val | 370 | Phe | His | Glu | Ser | Ile | 375 | Pro |
| Leu | Leu | Thr | Gln | 380 | Leu | Asp | Phe | Ile | Trp | 385 | Gly | Leu | Asp | Ala | Pro | 390 | Trp |
| Glu | Trp | Glu | His | 395 | Lys | Ile | Ile | Asn | Leu | 400 | Met | Arg | Lys | Tyr | Gln | 405 |     |
| Arg | Leu | Tyr | Asn | 410 |     |     |     |     |     | 415 |     |     |     |     |     |     |     |

&lt;210&gt; 18

&lt;211&gt; 244

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7512128CD1

&lt;400&gt; 18

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
| Met | Ala | Gly | Tyr | Glu | Tyr | Val | Ser | Pro | Glu | Gln | Leu | Ala | Gly | Phe |  |  |  |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |  |  |  |
| Asp | Lys | Tyr | Arg | Tyr | Ser | Ala | Val | Asp | Thr | Asn | Pro | Leu | Ser | Leu |  |  |  |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |  |  |  |
| Tyr | Val | Met | His | Pro | Phe | Trp | Asn | Thr | Ile | Val | Lys | Val | Phe | Pro |  |  |  |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |  |  |  |
| Thr | Trp | Leu | Ala | Pro | Asn | Leu | Ile | Thr | Phe | Ser | Gly | Phe | Leu | Leu |  |  |  |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |  |  |  |
| Val | Val | Phe | Asn | Phe | Leu | Leu | Met | Ala | Tyr | Phe | Asp | Pro | Asp | Phe |  |  |  |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |  |  |  |
| Tyr | Ala | Ser | Ala | Pro | Gly | His | Lys | His | Val | Pro | Asp | Trp | Val | Trp |  |  |  |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |  |  |  |
| Ile | Val | Val | Gly | Ile | Leu | Asn | Phe | Val | Ala | Tyr | Thr | Leu | Asp | Gly |  |  |  |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |  |  |  |
| Val | Asp | Gly | Lys | Gln | Ala | Arg | Arg | Thr | Asn | Ser | Ser | Thr | Pro | Leu |  |  |  |

|                 |                     |                     |     |  |     |
|-----------------|---------------------|---------------------|-----|--|-----|
|                 | 110                 |                     | 115 |  | 120 |
| Gly Glu Leu Phe | Asp His Gly Leu Asp | Ser Trp Ser Cys Val | Tyr |  |     |
|                 | 125                 |                     | 130 |  | 135 |
| Phe Val Val Thr | Val Tyr Ser Ile Phe | Gly Arg Gly Ser Thr | Gly |  |     |
|                 | 140                 |                     | 145 |  | 150 |
| Val Ser Val Phe | Val Leu Tyr Leu Leu | Leu Trp Val Val Leu | Phe |  |     |
|                 | 155                 |                     | 160 |  | 165 |
| Ser Phe Ile Leu | Ser His Trp Gly Lys | Tyr Asn Thr Gly Ile | Leu |  |     |
|                 | 170                 |                     | 175 |  | 180 |
| Phe Leu Pro Trp | Gly Tyr Asp Ile Ser | Gln Val Thr Ile Ser | Phe |  |     |
|                 | 185                 |                     | 190 |  | 195 |
| Val Tyr Ile Val | Thr Ala Val Val Gly | Val Glu Ala Trp Tyr | Glu |  |     |
|                 | 200                 |                     | 205 |  | 210 |
| Pro Phe Leu Phe | Asn Phe Leu Tyr Arg | Asp Leu Phe Thr Ala | Met |  |     |
|                 | 215                 |                     | 220 |  | 225 |
| Ile Ile Gly Cys | Ala Leu Cys Val Thr | Leu Pro Met Ser Leu | Leu |  |     |
|                 | 230                 |                     | 235 |  | 240 |
| Asn Phe Phe Arg |                     |                     |     |  |     |

<210> 19  
 <211> 158  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7518098CD1

|   |  |
|---|--|
| <400> 19  |  |
| Met Pro Ala His Leu Leu Gln Asp Asp Ile Ser Ser Ser Tyr Thr |  |
| 1 5 10 15   |  |
| Thr Thr Thr Thr Ile Thr Ala Pro Pro Ser Arg Val Leu Gln Asn |  |
| 20 25 30  |  |
| Gly Gly Asp Lys Leu Glu Thr Met Pro Leu Tyr Leu Glu Asp Asp |  |
| 35 40 45  |  |
| Ile Arg Pro Asp Ile Lys Asp Asp Ile Tyr Asp Pro Thr Tyr Lys |  |
| 50 55 60  |  |
| Asp Lys Glu Gly Pro Ser Pro Lys Val Glu Tyr Val Trp Arg Asn |  |
| 65 70 75  |  |
| Ile Ile Leu Met Ser Leu Leu His Leu Gly Ala Leu Tyr Gly Ile |  |
| 80 85 90  |  |
| Thr Leu Ile Pro Thr Cys Lys Phe Tyr Thr Trp Leu Trp Gly Val |  |
| 95 100 105  |  |
| Phe Tyr Tyr Phe Val Ser Ala Leu Gly Ile Thr Ala Gly Ala His |  |
| 110 115 120   |  |
| Arg Leu Trp Ser His Arg Ser Tyr Lys Ala Arg Leu Pro Leu Arg |  |
| 125 130 135   |  |
| Leu Phe Leu Ile Ile Ala Asn Thr Met Ala Phe Gln Ser Pro Gln |  |
| 140 145 150   |  |
| Val Pro Val Gln Ser Leu Ser Pro                             |  |
| 155   |  |

<210> 20  
 <211> 426  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7524729CD1

<400> 20

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Asn | Ser | Val | Pro | Leu | Leu | Cys | Phe | Trp | Ser | Leu | Cys | Tyr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Cys | Phe | Ala | Ala | Gly | Ser | Pro | Val | Pro | Phe | Gly | Pro | Glu | Gly | Arg |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Leu | Glu | Asp | Lys | Leu | His | Lys | Pro | Lys | Ala | Thr | Gln | Thr | Glu | Val |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Lys | Pro | Ser | Val | Arg | Phe | Asn | Leu | Arg | Thr | Ser | Lys | Asp | Pro | Glu |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| His | Glu | Gly | Cys | Tyr | Leu | Ser | Val | Gly | His | Ser | Gln | Pro | Leu | Glu |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Asp | Cys | Ser | Phe | Asn | Met | Thr | Ala | Lys | Thr | Phe | Phe | Ile | Ile | His |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Gly | Trp | Thr | Met | Ser | Gly | Ile | Phe | Glu | Asn | Trp | Leu | His | Lys | Leu |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Val | Ser | Ala | Leu | His | Thr | Arg | Glu | Lys | Asp | Ala | Asn | Val | Val | Val |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Val | Asp | Trp | Leu | Pro | Leu | Ala | His | Gln | Leu | Tyr | Thr | Asp | Ala | Val |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Asn | Asn | Thr | Arg | Val | Val | Gly | His | Ser | Ile | Ala | Arg | Met | Leu | Asp |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Trp | Leu | Gln | Glu | Lys | Asp | Asp | Phe | Ser | Leu | Gly | Asn | Val | His | Leu |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Ile | Gly | Tyr | Ser | Leu | Gly | Ala | His | Val | Ala | Gly | Tyr | Ala | Gly | Asn |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Phe | Val | Lys | Gly | Thr | Val | Gly | Arg | Ile | Thr | Ala | Ile | Thr | Glu | Val |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Val | Lys | Cys | Glu | His | Glu | Arg | Ala | Val | His | Leu | Phe | Val | Asp | Ser |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Leu | Val | Asn | Gln | Asp | Lys | Pro | Ser | Phe | Ala | Phe | Gln | Cys | Thr | Asp |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Ser | Asn | Arg | Phe | Lys | Lys | Gly | Ile | Cys | Leu | Ser | Cys | Arg | Lys | Asn |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Arg | Cys | Asn | Ser | Ile | Gly | Tyr | Asn | Ala | Lys | Lys | Met | Arg | Asn | Lys |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Arg | Asn | Ser | Lys | Met | Tyr | Leu | Lys | Thr | Arg | Ala | Gly | Met | Pro | Phe |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Arg | Val | Tyr | His | Tyr | Gln | Met | Lys | Ile | His | Val | Phe | Ser | Tyr | Lys |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Asn | Met | Gly | Glu | Ile | Glu | Pro | Thr | Phe | Tyr | Val | Thr | Leu | Tyr | Gly |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Thr | Asn | Ala | Asp | Ser | Gln | Thr | Leu | Pro | Leu | Glu | Ile | Val | Glu | Arg |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Ile | Glu | Gln | Asn | Ala | Thr | Asn | Thr | Phe | Leu | Val | Tyr | Thr | Glu | Gly |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Asp | Leu | Gly | Asp | Leu | Leu | Lys | Ile | Gln | Leu | Thr | Trp | Glu | Gly | Ala |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |
| Ser | Gln | Ser | Trp | Tyr | Asn | Leu | Trp | Lys | Glu | Phe | Arg | Ser | Tyr | Leu |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |
| Ser | Gln | Pro | Arg | Asn | Pro | Gly | Arg | Glu | Leu | Asn | Ile | Arg | Arg | Ile |
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |
| Arg | Val | Lys | Ser | Gly | Glu | Thr | Gln | Arg | Lys | Leu | Thr | Phe | Cys | Thr |
|     |     |     |     | 380 |     |     |     |     | 385 |     |     |     |     | 390 |
| Glu | Asp | Pro | Glu | Asn | Thr | Ser | Ile | Ser | Pro | Gly | Arg | Glu | Leu | Trp |
|     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     | 405 |
| Phe | Arg | Lys | Cys | Arg | Asp | Gly | Trp | Arg | Met | Lys | Asn | Glu | Thr | Ser |
|     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |     | 420 |
| Pro | Thr | Val | Glu | Leu | Pro |     |     |     |     |     |     |     |     |     |
|     |     |     |     | 425 |     |     |     |     |     |     |     |     |     |     |

&lt;210&gt; 21

&lt;211&gt; 909

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7520475CD1

&lt;400&gt; 21

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Val | Ala | Glu | Asn | Pro | Glu | Val | Thr | Lys | Gln | Trp | Val | Glu | Gly | 1   | 5   | 10  | 15  |
| Leu | Arg | Ser | Ile | Ile | His | Asn | Phe | Arg | Ala | Asn | Asn | Val | Ser | Pro | 20  | 25  | 30  | 35  |
| Met | Thr | Cys | Leu | Lys | Lys | His | Trp | Met | Lys | Leu | Ala | Phe | Met | Thr | 40  | 45  | 50  | 55  |
| Asn | Thr | Asn | Gly | Lys | Ile | Pro | Val | Arg | Ser | Ile | Thr | Arg | Thr | Phe | 60  | 65  | 70  | 75  |
| Ala | Ser | Gly | Lys | Thr | Glu | Lys | Val | Ile | Phe | Gln | Ala | Leu | Lys | Glu | 80  | 85  | 90  | 95  |
| Leu | Gly | Leu | Pro | Ser | Gly | Lys | Asn | Asp | Glu | Ile | Glu | Pro | Thr | Ala | 100 | 105 | 110 | 115 |
| Phe | Ser | Tyr | Glu | Lys | Phe | Tyr | Glu | Leu | Thr | Gln | Lys | Ile | Cys | Pro | 120 | 125 | 130 | 135 |
| Arg | Thr | Asp | Ile | Glu | Asp | Leu | Phe | Lys | Lys | Ile | Asn | Gly | Asp | Lys | 140 | 145 | 150 | 155 |
| Thr | Asp | Tyr | Leu | Thr | Val | Asp | Gln | Leu | Val | Ser | Phe | Leu | Asn | Glu | 160 | 165 | 170 | 175 |
| His | Gln | Arg | Asp | Pro | Arg | Leu | Asn | Glu | Ile | Leu | Phe | Pro | Phe | Tyr | 180 | 185 | 190 | 195 |
| Asp | Ala | Lys | Arg | Ala | Met | Gln | Ile | Ile | Glu | Met | Tyr | Glu | Pro | Asp | 200 | 205 | 210 | 215 |
| Glu | Asp | Leu | Lys | Lys | Lys | Gly | Leu | Ile | Ser | Ser | Asp | Gly | Phe | Cys | 220 | 225 | 230 | 235 |
| Arg | Tyr | Leu | Met | Ser | Asp | Glu | Asn | Ala | Pro | Val | Phe | Leu | Asp | Arg | 240 | 245 | 250 | 255 |
| Leu | Glu | Leu | Tyr | Gln | Glu | Met | Asp | His | Pro | Leu | Ala | His | Tyr | Phe | 260 | 265 | 270 | 275 |
| Ile | Ser | Ser | Ser | His | Asn | Thr | Tyr | Leu | Thr | Gly | Arg | Gln | Phe | Gly | 280 | 285 | 290 | 295 |
| Gly | Lys | Ser | Ser | Val | Glu | Met | Tyr | Arg | Gln | Val | Leu | Leu | Ala | Gly | 300 | 305 | 310 | 315 |
| Cys | Arg | Cys | Val | Glu | Leu | Asp | Cys | Trp | Asp | Gly | Lys | Gly | Glu | Asp | 320 | 325 | 330 | 335 |
| Gln | Glu | Pro | Ile | Ile | Thr | His | Gly | Lys | Ala | Met | Cys | Thr | Asp | Ile | 340 | 345 | 350 | 355 |
| Leu | Phe | Lys | Asp | Val | Ile | Gln | Ala | Ile | Lys | Glu | Thr | Ala | Phe | Val | 360 | 365 | 370 | 375 |
| Thr | Ser | Glu | Tyr | Pro | Val | Ile | Leu | Ser | Phe | Glu | Asn | His | Cys | Ser | 380 | 385 | 390 | 395 |
| Lys | Tyr | Gln | Gln | Tyr | Lys | Met | Ser | Lys | Tyr | Cys | Glu | Asp | Leu | Phe | 400 | 405 | 410 | 415 |
| Gly | Asp | Leu | Leu | Leu | Lys | Gln | Ala | Leu | Glu | Ser | His | Pro | Leu | Glu | 420 | 425 | 430 | 435 |
| Pro | Gly | Arg | Ala | Leu | Pro | Ser | Pro | Asn | Asp | Leu | Lys | Arg | Lys | Ile |     |     |     |     |
| Leu | Ile | Lys | Asn | Lys | Arg | Leu | Lys | Pro | Glu | Val | Glu | Lys | Lys | Gln |     |     |     |     |
| Leu | Glu | Ala | Leu | Arg | Ser | Met | Met | Glu | Ala | Gly | Glu | Ser | Ala | Ser |     |     |     |     |
| Pro | Ala | Asn | Ile | Leu | Glu | Asp | Asp | Asn | Glu | Glu | Glu | Ile | Glu | Ser |     |     |     |     |
| Ala | Asp | Gln | Glu | Glu | Glu | Ala | His | Pro | Glu | Phe | Lys | Phe | Gly | Asn |     |     |     |     |
| Glu | Leu | Ser | Ala | Asp | Asp | Leu | Gly | His | Lys | Glu | Ala | Val | Ala | Asn |     |     |     |     |
| Ser | Val | Lys | Lys | Gly | Leu | Val | Thr | Val | Glu | Asp | Glu | Gln | Ala | Trp |     |     |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Ser | Tyr | Lys | Tyr | Val | Gly | Ala | Thr | Thr | Asn | Ile | His | Pro |
|     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     | 450 |
| His | Leu | Ser | Thr | Met | Ile | Asn | Tyr | Ala | Gln | Pro | Val | Lys | Phe | Gln |
|     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     | 465 |
| Gly | Phe | His | Val | Ala | Glu | Glu | Arg | Asn | Ile | His | Tyr | Asn | Met | Ser |
|     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Ser | Phe | Asn | Glu | Ser | Val | Gly | Leu | Gly | Tyr | Leu | Lys | Thr | His | Ala |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |
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| Leu | Pro | Thr | Asp | Thr | Ile | Arg | Lys | Glu | Phe | Arg | Thr | Arg | Met | Val |
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| Met | Asn | Asn | Gly | Leu | Asn | Pro | Val | Tyr | Asn | Glu | Glu | Ser | Phe | Val |
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| Phe | Arg | Lys | Val | Ile | Leu | Pro | Asp | Leu | Ala | Val | Leu | Arg | Ile | Ala |
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| Leu | Asp | Gly | Leu | Gln | Ala | Gly | Tyr | Arg | His | Ile | Ser | Leu | Arg | Asn |
|     |     |     |     | 680 |     |     |     |     | 685 |     |     |     |     | 690 |
| Glu | Gly | Asn | Lys | Pro | Leu | Ser | Leu | Pro | Thr | Ile | Phe | Cys | Asn | Ile |
|     |     |     |     | 695 |     |     |     |     | 700 |     |     |     |     | 705 |
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&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523653CB1

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&lt;211&gt; 3703

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7751418CB1

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&lt;223&gt; Incyte ID No: 7513164CB1

&lt;400&gt; 32

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&lt;223&gt; Incyte ID No: 7513496CB1

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<210> 38  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> Incyte ID No: 7516771CB1

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<210> 39  
 <211> 2249  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7512128CB1

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<400> 39
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<210> 40  
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<212> DNA  
<213> Homo sapiens

<220>  
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<210> 41
<211> 1329
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 7524729CB1

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<210> 42
<211> 3814
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 7520475CB1

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<400> 42
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|             |            |             |             |             |             |      |
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| tccaatgaca  | tgcctcaaga | aacactggat  | gaaattggca  | tttatgacca  | acacaaatgg  | 660  |
| taaaattcca  | gttaggagta | ttactagaac  | atttgcacg   | ggaaaaacag  | aaaagggtgat | 720  |
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